# AN AI-ENHANCED TRAINING PLATFORM FOR OUTDOOR CAMPING LEADERSHIP WITH YOUTH PROGRAMS USING ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

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### ABSTRACT

This paper addresses the inefficiency of traditional staff training for camp employees, which often requires extended in-person sessions before the camp begins. StaffPrep is designed to reduce the time staff spend on-site for training, allowing them to enjoy their summer vacation while learning essential skills remotely [1]. The app has three core components: an AI-driven feature that generates situational questions and answers to quiz staff members; a multiple-choice quiz platform that records scores and reports them to the camp for staff qualification; and an authentication system that enables users to create accounts and track their learning progress. To evaluate the app's effectiveness, 32 AI-generated questions were assessed for quality and relevance on a scale of 1–10, with results indicating high relevance and quality. Time is valuable, and StaffPrep empowers users to save time while maintaining the integrity and efficiency of the training process.

### **KEYWORDS**

Remote training, AI-generated quizzes, Staff qualification, Camp employee efficiency

### **1. INTRODUCTION**

StaffPrep is an app that was originally designed for a camp that I worked at. I was there one summer and realized that the staff training requires employees to be at camp a week and a half before the camp starts [2]. This annoyed me because it takes up a lot of time in addition to the 2 weeks I would work there as a counselor, and that there could be better things for me to do instead of being stuck in the camp. Additionally, the training was pointless and was not reinforced, as it would include lectures on how to deal with kids, what to do in certain situations, and camp rules, but no testing on whether the staff members understand and fully remember the concepts. On top of that, many returning staff would just not show up with an excuse of having previously planned out something and that they have done the training before, which could be easily replaced by a training app that would prepare the staff remotely, and quiz them to make sure they are prepared for camp.

In Section 5, we explored three methodologies for remote staff training:

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Remote Educational Interaction: This methodology uses digital tools like video lectures and interactive platforms to deliver remote training [3]. It aims to enhance digital competence and accessibility. However, it struggles with engagement, limited testing mechanisms, and lack of real-world application.

Training for Remote Service Providers: This method identifies training needs through ethnographic studies and uses experiential learning for skill-building. It focuses on team-based approaches but relies heavily on in-person mentoring and lacks scalable, technology-driven solutions [4].

Remote Training with Self-Assessment: This approach combines virtual labs and self-assessment tools for personalized training [5]. It promotes autonomy but falls short in replicating real-world experiences and providing specific feedback.

StaffPrep improves on these by incorporating AI-driven dynamic content for situational training, structured testing for knowledge reinforcement, and realistic scenario-based exercises [6]. These features address engagement, scalability, and real-world application, creating a comprehensive, flexible training solution.

The app essentially reduces the time that staff members have to spend on learning about the materials that the camp requires them to know before working. This is achieved by the utilization of the quizzing system and the situational Ai generated questions that would help the staff better remember and master the concepts [7]. The Ai generated questions present real world scenarios that are realistic, varied, and customizable to the users. Using Ai allows the app to elaborate on the study materials provided by the camp and develop questions related but not mentioned in the materials. Additionally, since it is an app and a remote self-learning process, the staff members can complete this anywhere in the world while on vacation or work.

In this experiment, we evaluated the accuracy and relevance of AI-generated situational questions and answers within the StaffPrep application. The goal was to test whether the AI could reliably produce meaningful, high-quality questions that aligned with provided training materials and real-world scenarios.

To set up the experiment, we generated 32 questions across 8 topics, rating each question on a scale of 0-10 for relevance and quality. A score above 5 was considered relevant. The most significant findings indicated that the majority of questions (81.3%) were highly relevant, with an average score of 8.156. However, lower scores often reflected vague or nonspecific answers.

The results were consistent with expectations, as the AI successfully tailored most questions to the training context. Minor deficiencies were due to limited answer specificity. Overall, the experiment was successful, demonstrating that the AI-generated content was effective, with room for refinement to improve clarity and detail.

# **2.** CHALLENGES

In order to build the project, a few challenges have been identified as follows.

# 2.1. Authentication

Authentication ensures secure access to StaffPrep's functionalities. To address skepticism, the app uses encrypted storage and secure communication protocols to protect user credentials [8]. A

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robust password recovery system ensures accessibility if users forget their credentials, while efficient design minimizes delays even for users with weaker internet connections. These measures ensure the authentication process is reliable, user-friendly, and secure.

# **2.2. Training Questions**

The AI system generates dynamic, relevant training questions using study material. To address concerns about accuracy, the AI is fine-tuned and outputs are reviewed. Difficulty levels adjust based on user performance, ensuring appropriate challenges. Additionally, pre-launch testing and filters prevent nonsensical or inappropriate content. These safeguards ensure meaningful, high-quality question generation.

# 2.3. The Quiz System

The quiz system evaluates users' knowledge and securely stores results. Anti-cheating measures include randomized questions and time limits [9]. Data validation ensures scores are accurately recorded, while encryption protects data during transmission and storage. These strategies guarantee fair, accurate, and secure reporting of users' performance, addressing concerns about reliability and integrity.

# **3. SOLUTION**

StaffPrep is an app that was originally designed for a camp that I worked at. I was there one summer and realized that the staff training requires employees to be at camp a week before the camp starts. The training would include lectures on how to deal with kids, what to do in certain situations, and camp rules. However, I realized that the process was not only tedious, inconvenient, but also could be easily replaced by a training app that would prepare the staff remotely. StaffPrep includes three major components or functions: study, practice, and test. The Quiz and Practice functions use Ai, specifically Gemini, to generate a series of prompts, questions, and the answers to those questions through the information in study materials that the camp would provide [10]. By using Ai the app could generate a greater variety of questions not limiting to the ones on the camp's provided material. It could create scenarios for the staff so they could familiarize them before getting to camp making them more confident and decisive when they experience them in person. While the study function doesn't record scores, the quiz does, which would eventually be reported to the camp. The quizzing aspect of the app is very important because it ensures that the staff fully understands the concepts and rules. Finally, the Study function allows the staff to learn the material provided by the camp, this section of the app would include more of the readings, videos or slideshows from the camp.



Figure 1. Overview of the solution

The authentication system of this app is designed so each user would have a profile to keep track of their progress and scores for their online staff training. Firebase authentication and Firestore database are the main services that we used to build and store the user profile [14]. While Firebase is used to authenticate user emails, usernames, and passwords, Firestore is used to store profile pictures and test results.

	← Complete Profile
,	Your information
	Your Name [Display Name]
	Email [Email]
	Birthdate [Birthdate]
	Save Changes

Figure 2. Screenshot of the log in page

			_	
Action 1				
Upload media	to Fireb	ase		
	+			
Action 2				
Backend Call Update Document				
	+			

Figure 3. Screenshot of the actions 1

The authentication system includes the login/sign-up page, and the profile editing page. The login/sign-up page stores the user email and created password into firebase and is linked to the profile editing page, where the user would be able to edit their email and password there. We are using the firebase authentication system to store the emails and passwords. The action would then be synced and linked throughout the system through the "backend call– update document" action. The profile picture can be uploaded and stored in firebase in the profile page and it will also be synced in the app like the email and password. The image is stored in the "Storage" feature of Firstore and then the image url is stored into a collection in Firebase for each user. Besides the user authentication, firestore is also used to store the quiz results of the users. The results, like the email and password, are also stored in the user collection.

The Ai generation function of the app uses Gemini to generate situational questions and answers through sample articles provided by the administrator. Each user's quiz is unique to the user as the quizzes are generated at the moment instead of previously provided quizzes. This would make the user experience more personalized and also prevent cheating.

Action 1 Gemini Generate Text	
Custom Action	
Î	
Action 3	
Navigate To GuizPage	
<b>(</b>	

Figure 4. Screenshot of actions 2



Figure 5. Screenshot of code 1

This function was created by linking the app with Gemini through an API key. Then, a custom code was made so that the prompt for Gemini could convert the articles provided into multiple choice questions through Json. The code translates Json into the format that Flutterflow uses and sends over the questions that the users would see in the quiz page [15]. The articles are stored in Firebase so it is easily accessed to change and edit. The prompt for Gemini is developed to generate situational questions that are flexible and beyond the articles. In other words, Gemini would process the article and create a made up scenario that would be more realistic to the users related to the information given. Examples for the format of the multiple choice questions is also provided in the prompt so that Gemini could build questions more accurately.

The quiz component of the app allows the users to test what they have learned in the app through the format of multiple choice questions. The quiz includes 5 questions for each article and each question would have a scenario generated by Ai with 4 multiple choice answers to go with it.



Figure 6. Screenshot of code question



Figure 7. Screenshot of code 2

The questions and answers generated by the Ai are dynamically inserted into the quiz, meaning that Ai is able to create the set of questions with their corresponding right and wrong answers automatically. The action for this page allows the users to see if they get each question right after selecting an answer. The answer would either turn green for correct answers, or turn red for incorrect answers. The answers would then be recorded and stored into each user's account in Firebase to create a score report at the end. Every page receives the list of questions as the current question number so that the program would stop generating questions once it hits 5 questions for each section. Once the users complete the quiz, the quiz status would be reflected as either completed or incomplete on the Quiz Selection page. The practice page is similar to the quiz page, except the practice page doesn't record the score, and the users could do it as many times as they want to familiarize themselves with the concepts from the articles.

### **4. EXPERIMENT**

In the experiment, Ai is asked to generate situational questions and answers like a scenario and solutions to the scenarios.the relevancy of the generated questions and answers would be tested. This is important because especially when using Ai, generating questions beyond the provided articles may not always be reliable.

Since the relevancy of the questions and answers is being tested, we will run tests that would repetitively measure the accuracy of the independent variable. The variable would be labeled as either relevant or irrelevant after testing 32 quizzes by going through the questions and determining if it is a helpful and accurate assessment for the reference articles. The amount of relevant and irrelevant questions is then recorded and assessed. Each question would be given a rating (0-10) on the relevance and quality of the question. Any number higher than a 5 would be relevant and any number lower would be irrelevant. The average rating of the relevant/irrelevant questions would then be helpful for app improvement and future studies. Ideally the questions and answers would be relevant but not limited to the sample articles. Although the questions and answers could be scenarios not mentioned in the articles, they should still be within the boundaries of the topic and helpful for the sake of staff training.

Question	Topio	Question output	Deleveney and			differently" )]		
Question	Торіс		quality(out of 10, a number greater than 5 means relevant and lower would indicate irrelevant )	6	5	Emergency Action Plans	[1] "resettor": "You are a non-wakes at a source camp and a same and a same begins to expension a save a sale of maction. What should be your first occurs of about, "answer," "Typone the camper and control with your that the camper yourself using that the campe yourself using ower-the-counter medication." "answer," "Immediately activities the "answer," Immediately activities the "answer," Immediately activities the "answer," Immediately activities the "answer," Immediately activities the Immediately activities the Immediately activities the Immediately activities the Immediately activities the Immediately	7 (correct answer is not specific enough but is still relevant)
1	Resolving Conflicts Constructively at our Camp	[["question", "As a connector, you notice two compens arguing about who gets to choose the activity for the alternoon. How should you intervene?", "amover, at," "Hell at there to stop anguing", "amover, b", "groups the conflict and hope it resolves itself, where both campos can express their feelings and find a comporties", "amover, d", "Choogen the activity for	8			camp's Emergency medical response prina not follow the established procedures.", "answer, d": "Call the camper's particular and sait them to "Immediately activate the camp's emergency medical response plan and follow the established procedures." ).	-	
2	Resolving Conflicts Constructively at our Camp	where took campoors can express their feeling and rife a componing." I leading a suff of a componing of the bocause bey defining at the part they have been as the sufficient of the sufficient disappointment and market the conflict disappointment and market the conflict disappointment and market the conflict disappointment and market the conflict disappointment and market the sufficient disappointment and market the sufficient disappointment and market the sufficient to express their feetings and node the sufficient to express their feetings and node the sufficient disappoint and market the sufficient and the sufficient disappoint and the sufficient and the sufficient and the disappoint and the sufficient and the sufficient and the disappoin	8		Emergency Action Plans	1 <sup>1</sup> Quarters <sup>-1</sup> A same thumbers in a paymenting the access and you are responsible for leading a group of a graphic on a hist. (Net should group of a simple set of the should group of a simple set of the	9	
3	Resolving Conflicts Constructively at our Camp	access the testing and heap term poly in other ways? Jo Play in other ways? A supply in other ways? In the supply in the supply and the filter state of the supply and the filter state of the supply and the filter state of the supply and the suppl	8	7	Emergency Action Plans	("gastion" 74 campar has gone missing during a name wait. Mast should you diff "series" of "Automation to the series" of the series of the continue with your planest above rates. "Conserve, of "Intersetation rates." Interset and the series of rates." Interset and the series of rates." Interset and the series of rates." Interset of the series of rates." Interset of the series of rates." Interset of the series of rates of the series of maintenance of rates of the series of maintenance of rates of the series of the series of the series of rates of the series of the series of the series of rates of the series of the series of the series of the rates of the series of the series of the series of the rates of the series of the series of the series of the rates of the series of the series of the series of the series of the rates of the series of the series of the series of the series of the rates of the series of the rates of the series of the series of the series of the series of the rates of the series	7	
4	Resolving Conflicts Constructively at our Camp	ground"). ("framediant"). We a conflict has been reached, while can you do to holp camper learn from the operators." I more any and the conflict". I more any any and the conflict". I more any any any any any any any any any any any any any any any any any any	7	8	Emergency Action Plans	("ignation" 'A fire has belien out it the same visible. What should go or?, "Issuer, "I the part of the the yoursel outgo what we make a satisfield," since "J' bockate the satisfield, "issuer, "I bockate the fire and antimum, "I group the fire and antimum, and the fire a satisfication," then call the fire department." []	9	
9	Creating a Bully-Free Camp: Prevention and	ting a	8			"answer_c": "Stop the hike and try to comfort the camper, asking them what's wong," answer_C". Tell the other campers to ignore the crying campar and keep waters," "comed." "Stop the hike and try to comfort the camper, asking them what's wrong." ).		
	Intervention Strategies	privately and ask him about his feelings." "answer, of "Photon the campers who are excluding Alec.", "answer, of "Photolog confront the campers who are excluding Alec.", "correct" "Takko Alex provestely and ask him about his feelings.").		14	Leading games and Activities with Confidence at our Camp	("question" "You're planning a game of capture the flag for a group of campers, but you notice that some of them are much smaller and less athletic than others. What should you do?". "anawe_a". "Let them choose laams however they want", "answer_b". "Divide the compers into bares to based	9	
10	Creating a Bully-Free Camp: Prevention and Intervention	("question": "A camper Sarah, reports that another camper, Ban, has been making fun of her appearance. What should you do?", "answer_3". "Diamiss Sarah's report as a minor disagreement", "answer_5". "Talk to Ben privately and warn firm not to do it	7			on their abilities.", "answer, C: "Onate special rules to make the game fair for everyone.", "answer, d': "Don't let the smaller comprey pay at al.", "correct" "Create special rules to make the game fair for everyone." ).		
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11	Creating a Bully-Free Camp: Prevention and	. ("question": "You observe a group of campers playing a game that involves tessing and making fun of each other. How should you respond?" "answer a"." Let the campers continue devices a bear a their a baile fait."	8					
	Strategies	"answer 2" "Inserves and stop the game immediately." Answer, 2" Take to the campers about the negative effects of tassing and bullying." "answer d" Ignore the situation and hope it will result itself." Tak to the campers about the negative effects of tassing and bullying.").		16	Leading games and Activities with Confidence at our Camp		9	
12	Creating a Bully-Free Camp: Prevention and	{ "puestion" 'A camper, Jaka wile you then his target builde by another camper, build avoid that of the line more and the camper of the second second "more and the second second second second to the lange second second second second about the builying," "second," contract "prove Jakes second second second second camper who is builying "sec," Contract "Brownight second second second second camper who is builying "second," contract about the builying " ) ]	9			backpack for them.", "comeof: "Pair them up with a faster camper to help them along." ]]		
	Strategies			17	De-escalation Strategies: Addressing Challenging Behaviors at our Camp	( ("guestion", "You are a camp counselor and ontoine a camper of bound of the time of the guestion of the second of the second of the second table." A more all the time provides the time of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the time of the second of the second of the metal of the second of the second of the metal of the second of the second of the presence." A second of the second of the presence of the second of the second of the second of the presence of the second of the second of the second of the presence of the second of the second of the second of the presence of the second of the second of the second of the presence of the second of the second of the second of the presence of the second of the second of the second of the presence of the second of	8	
13	Leading games and Activities with Confidence at our Camp	("question": "You are leading a group of camper on a nature hile when a camper stars to ory and say they're scared. What should you do?", "answer git" ignore them and continue the hile," "answer git" Tell them to stop being a baby and togeten up.",	9					

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	18	De-escalation Strategies: Addressing Challenging Behaviors at our Camp	("Question" "A campar has been acting out and dawuping the camp activities. You have their to de-escalar the situation, but is continues to escalars. What should you do next", "answer, 2" Physically services the campar form the situation without any continue with the situation." Answer, d' boots a deterting season with the	8	23 First / Esser Camp 24 First / Esser Camp		camper and continue with the activity.", "name," (c) "Bhout for help and by to become the campoy volume!", become the campoy volume! call for assistance if measure, "Chamber namewer, "Chambers CPR immediately," "correct" Assess the haudator and call for assistance if measure, "Chamber CPR immediately," to resultance if measure, "Chamber CPR measure, "Chamber CPR measure, "Chamber CPR immediately," to resultance if measure, "Chamber CPR measure, "Chamber CPR immediately, "correct," Assess the haudator and call for assistance if measure, "Chamber CPR measure, "Chamber CPR immediately, "correct," Assess the haudator and call for assistance if measure, "Chamber CPR immediately, "correct," Assess the haudator and call for assistance if measure, "Chamber CPR immediately, "correct," Assess the haudator and call for assistance if measure, "Chamber CPR immediately, "correct," Assess the haudator and call for assistance if measure, "Chamber CPR immediately, "correct," Assess the haudator and call for assistance if measure, "Chamber CPR immediately, "correct," Assess the haudator and call for assistance if measure, "Chamber CPR immediately, "correct," Assess the haudator and call for assistance if measure, "Chamber CPR immediately, "correct," Assess the haudator and call for assistance if measure, "Chamber CPR immediately, "correct," Assess the haudator and call for assistance if measure, "Chamber CPR immediately, "correct," Assess the haudator and call for assistance if haudator and call for assistanc		
			compare to discuss the situation and find a solution." Araward, 3" Funish the compare by sanding them to their test for cathin, "cornel." Physically remove the campair from the situation without any regard for their dignity or respect." ).			23	First Aid Essentials for Camp Counselors	("question": "A camper gets a bee sting and begins to experience difficulty beathing and swelling in their fee. What is the most likely cause of these symptons", maximum, and the second allergin reaction to the bee venom." "answell," "A second allergin maction (anophylatical) to the bee venom."	8
	19	De-escalation Strategies: Addressing Challenging	["Question": "After a challenging incident involving a cample, you and your follow staff members hold a debriefing session. What is the main purpose of this session.", "answer, a" "to assign before to the camport for the incident.", "answer, b"." To purish the staff monthesis involving."	8		First Aid	the bee sting.", "answer_c?", "A panic attack caused by the pain of the bee sting," (comerci 'A server allenge reaction (anaphylaxia) to the bee venom." ).	9	
		Behaviors at our Camp	"answer _1" To identify underlying issues, improve communication, and observations in the follow." "To topper about the inclusion: anower _1" "To topper about the inclusion, and on-" comment." To identify underlying issues, improve communication, and oneare a plane to a addressing similar behaviors in the foture." ].			Essentials for Camp Counselors Age-Appropriate Activities for 10-15 Year Olds	["special", "A sample this and whith frequential to the same to constrain the same to constrain the same to constrain the same transmission of the same to constrain the same transmission of the same transmission "Apply a cold compress to the impact "apply cold compress to the impact metal constraint with the same transmission and the same transmission of the same transmission operation and the same transmission of the constraint with the same transmission of the constraint with the same transmission operation and the same transmission of the constraint of the same transmission of the same transmission of the constraint of the same transmission of the same transmission of the constraint of the same transmission of the same transmission of the constraint of the same transmission of the same transmission of the constraint of the same transmission of the same transmission of the constraint of the same transmission of the same transmission of the constraint of the same transmission of the same transmission of the constraint of the same transmission of the same transmission of the same transmission of the constraint of the same transmission of the same transmission of the constraint of the same transmission of the s	9	
	20	De-escalation Strategies: Addressing Challenging	("question": "You are a new camp counsaior and are unsure how to handle a challenging situation with a campar. What is the best course of action", "answer all" Try to figure 8 out on your own without asking for help.", "answer b" Trycow the situation	8					
		Behaviors at our Camp	and hope it goes away," "arrange.c" "Deek guidens from experiences statt members who can offer advice and support," assume .c" Frunklish the camper to teach them a lesson", "correct". Seek guidence from experiences statf members who can offer advice and support.")		25		25 Age-Appropriate Activities for 10-15 Year Olds	riate (['question': "You are a camp contraitor responsible for a group of 10-15 years day to you want a damp both a sum of camp and a damp both and camp and a damp both and damp aged. What should you do?', "answer, if: "Centime with the planed activities, as they are	9
	21	First Aid Essentials for Camp Counselors	(1) "constant", "While billing with a group of advant, a shall fills with other before the share of the share of the continues. What is the first stage in providing first adv1", "senser, as", "Apply a building, "analytic," "Apply a building, "analytic," "Apply a building, "analytic," "Apply a building, "analytic," "Apply a building, "analytic," "Apply sites pressure to the wound with a clean other to bandge," "analytic," building first provide first building."	8			age-agrouption ("rease, 5)" Value the campers to locate that own acturities, regardless of interfue they actures, regardless of interfue they actures, regardless of interfue the respective they actual the the the camper's interests and abilities," Taxtew gf: Camodi- tatives and it the campers the pair, "comed". Modify the planned activities to cater to the campers interests and abilities.").		
			reduce swelling.", "correct": "Appy direct pressure to the vound with a clean cloth or bandage." ],		26	Age-Appropriate Activities for	{ "question": "You are organizing a group activity for your 10-15 year old carrows." You want to ensure that the	8	
	22	First Aid Essentials for Camp Counselors	{ "question": "During a swimming activity, a camper begins to experience cramps and appears to be strugging in the strugging at the strugging at the should do?", "answer_s": "grore the	7		10-15 Year Olds	activity is both stimulating and age-appropriate. Which of the following activities would be most suitable for this age group?", "answer_a", "A quiet reading activity", "answer_a", "A quiet reading activity", "answer_b", "A competitive game of tag," "answer_c", "A group discussion on a cument event.", "answer_d", "A simple craft		
			project.", "correct": "A competitive game of tag." }.						
27	7	Age-Appropriate Activities for 10-15 Year Olds	("question" "Non version flat one of your camput, a 12-pass-oil. Is introduced and the second of the second particular with a behavior to an of the method of the second of the second heat second of the second of the heat second of the second of the complete ", control". Offer the campute method of the second of the second of the heat is set the the problem. It shows heat independently.")	9					
28	3	Age-Appropriate Activities for 10-15 Year Olds	("question": "You are planning a group activity that involves physical movement and coordination. Which of the following the second second second second second participation activity, "ranswer, 2" "A gardin group class.", "answer, 2" "A sciencing in funct, "answer, 2" "A science in fu	7					
29	)	Positive Behavior Management Techniques in 10-15 Year Olds	( "Generation" This are a comp contractive contrary and is groups of "System-Gis what are constantly arguing and Sphiling. What is the ben- "Thismer," I, "groups constantly arguing and Sphiling. What is the behavior and hope it will evalue tast", "saver, "J' method and the share of the behavior and positive attribution and the behavior and behavior.", "saver, "Si behavior and establish how a expectations for behavior."	8		1		_	
30	)	Positive Behavior Management Techniques in	("question": "You have a camper who is frequently acting out and disrupting the group. What proactive strategy can behavior strategy", "answer," finance behavior susce?", "answer, "ar lignore	8			withdrawn, "Jessew c", "Reach out them privately and offer support and encouragement," answer c", "Jocas them from the reac of the group," "correct", Reach out to them privately and offer support and encouragement ).	0 # [	
		10-15 Year Olds	There obtained and hope it will improve ", finative ju" purish then severely to deter future misbehavior", "answerget" Provide them with extra attention and support ", "answerget", "solate them from the set of the group.", "tomeof." "Provide them with extra attention and support "),		32	Positive Behavio Management Techniques in 10-15 Year Olds	("question": You have a camper who frequently breaking the camp rules. What is the back way to address this behavior 7", answer, a", "growe their behavior on those it will improve," deter future midehavior, "ressee, to back "Bet clage apperformance to back	9	
31		Positive Behavior Management Techniques in 10-15 Year Olds	("question": "You notice that one of your compare is struggling with a personal save and is becoming noreasingly withdrawn. What should you do?", "answer a." "grower their", " narwer a." "hurish them for being	8			consistently enforce consequences to breaking the rules." Answer, of: "Robate them from the erse of the group," context: "Bet dear expectations for behavior and consistently enforce consequences to breaking the rules.")]	e	

Figure 8. Table of experiment 1



Figure 9. Figure of experiment 1

There were a total of 32 trials in the experiment, and all of the 8 articles were tested. Each article had 4 question samples, and each of the questions was given a rating out of 10 to evaluate the relevance and quality of the question. While the ratings that came out were either 7,8, or 9, the 8 rating occurred most frequently (46.9%). Rating 7 and 9 followed with 18.8% and 34.4%. The average rating for the data set was approximately 8.156 which indicates that the relevance of the questions tend to be high as any rating higher than 5 would be considered relevant. The questions with lower ratings tend to have a trend of not being specific enough in the answers. For example, in question 22, the generated correct answer was "Assess the situation and call for assistance if necessary." The answer is very vague and doesn't include a clear approach to solving the issue in the question.

# **5. RELATED WORK**

Source 1 leverages digital technologies to deliver remote education for professional development in postgraduate education. It incorporates distance learning platforms, video lectures, and interactive tools to enhance digital competence and accessibility. Customizable content delivery ensures that training aligns with individual professional needs. While effective in providing flexible and adaptive learning, challenges such as reduced engagement, technical barriers, and limited knowledge reinforcement persist. This system is valuable for training professionals remotely but would benefit from additional mechanisms to assess knowledge retention and practical preparedness [11].

Source 2 identifies the training needs of staff delivering remote services, focusing on skills like communication, ethics, and technological proficiency. It employs mixed methods, including ethnographic studies, interviews, and team learning frameworks, to create competency-based training. While didactic methods are used for basic knowledge, advanced skills are developed through experiential learning such as case discussions and shadowing. This approach effectively enhances staff confidence and teamwork but faces challenges like limited accessibility to experiential training and reliance on in-person mentoring. The methodology could benefit from integrating personalized and scalable digital solutions for broader applicability [12].

Source 3 uses remote labs and self-assessment tools to train electrical engineering students and professionals. It incorporates active learning through interactive virtual environments and quizzes, enabling learners to evaluate their progress and customize learning paths. The approach fosters autonomy and skill development while providing flexible access to resources. However, it faces challenges replicating real-world equipment interaction, providing in-depth feedback, and ensuring accessibility in low-infrastructure settings. Expanding collaborative learning and integrating real-life scenario training could enhance its effectiveness [13].

### **6.** CONCLUSIONS

When programming the app, there were many difficulties that we faced and dealt with. For example, when using Flutterflow we realized that formatting the app and putting things where I wanted them to be was harder than we expected. We had to watch many tutorials to get the hang of it. Creating a Prompt for Gemini was also hard as we experimented with the wording extensively to convey the right message for Gemini. A specific prompt allows the situational quizzes in the app to be more accurate and varied. To create a 2.0 version of the App, we would develop more functions to the app like more setting options that can help the app run more smoothly. Additionally, we would add a function to the app where the camp could have administrator accounts. The administrator accounts would allow the camp to edit the articles that are being input into the app to generate questions and edit the quizzes themselves instead of asking for me as a developer to edit the app and update it.

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