R.A.I

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THEME

Covid-19 took a big hit on students' education, especially in their reading comprehension and vocabulary skills. The average scores of the reading sections of SOLs and SATs have decreased tremendously, and our country is miles away from the averages during pre-covid times. I saw this problem and thought how kids of this generation are missing out on learning crucial skills learned from reading comprehension and vocabulary. I didn't want others, including myself, to lose the opportunity and suffer from this consequence in the future. This is why I decided to created this app to help change that.
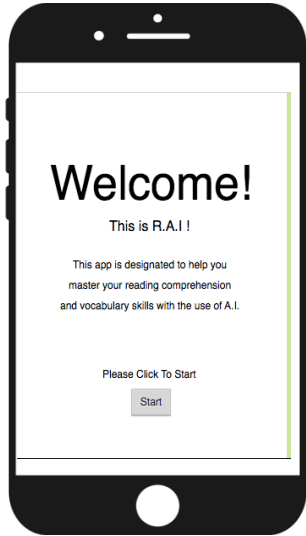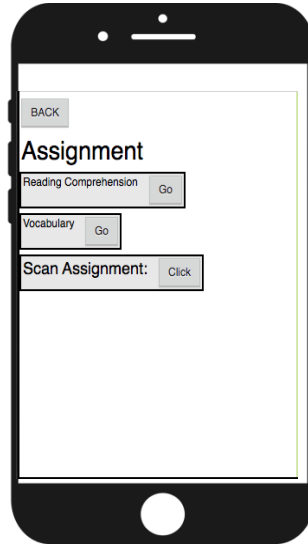
OVERVIEW

- **App Name:** R.A.I (Reading in Artificial Intelligence)

- **App Description:** This app is used to help students of all age to practice and master their reading comprehension and vocabulary skills and prepare for reading tests. With the app, you are able to scan any passage, in which it applies the latest AI technology to generate a list of questions for you to answer and vocabulary words for you to learn. It also rates the answer as an AI agent. The app can be extended to other subjects.

- **Track:** Youth Individual
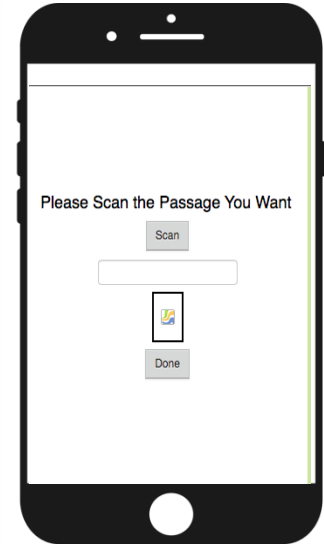
- **Category:** Education.

INSTRUCTIONS

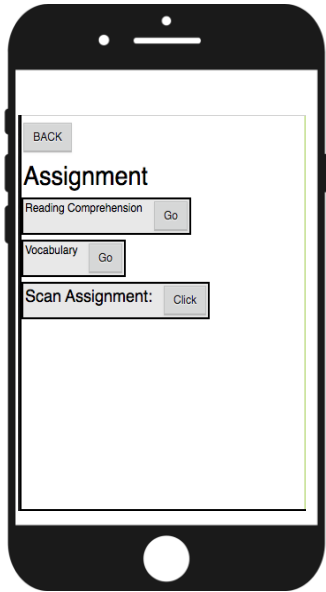Step 1: Here is the main page. Click the "Start" button to move on.

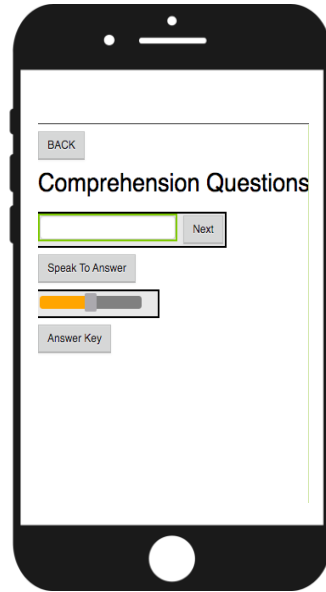Step 2: Click button to scan a passage of your choice.

Step 3: Click "Scan" to take a picture of the passage and get text using OCR Engine. Click "Done" after finished.
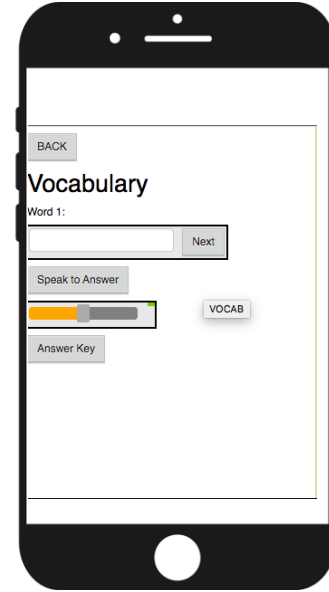
INSTRUCTIONS

Step 4: Click on either "Go" button to practice reading comprehension or vocabulary.

Step 5: Questioned showed are generated by ChatGPT. Click "Speak to Answer" button to answer in the textbox. Look at rating slider to see the quality of the answer.. Click "Next" to see next question. Optionally click button "Answer Key" to see answer.

Step 6: List of keywords generated by ChatGPT. Click "Speak to Answer" button to answer in the textbox. Look at rating slider to see the quality of the answer. Click "Next" to see next word. Optionally click button "Answer Key" to see answer.

LIMITATIONS

Some limitations include the quality of the picture taken. The quality of the picture must be clear and in the right direction for the OCR Engine to successfully get correct text from it.

The OpenAI extension takes awhile to run and users may need to wait a few seconds for it to load the questions and answers.

ACKNOWLEDGEMENTS

Please list the names of anyone who helped you with developing your app, and describe what type of help they provided.

- Fayin Li #1: (Discussion the possible solutions for the idea)
- Dr. Meng #2: (Took his class and learned MIT App Inventor)

APPENDIX

If you have any supplementary information you wish to include, feel free to add it to the Appendix. **This section is entirely optional.**

It is recommended to add materials to the Appendix if you submitted a hardware project (e.g. with schematics, flow diagrams) or if your project included significant programming components outside of the MIT App Inventor platform.

Please be aware that judges reserve the right to exercise their discretion in reviewing materials within the Appendix, and they may not review its entirety if they consider it excessively lengthy.

SUMMER APPATHON

SYSTEM DIAGRAM