

Prototype documentation

CodeTrip

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CS 446 - Team CodeTrip

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The demo summary should describe the functionality that will be demonstrated highlighting which aspects of the demo are real and which parts are simulated.

- Sidebar
 - Navigate between Course Map, Gist
- App bar
 - Display total stars gained (**simulated**)
- Course Map
 - User can navigate through courses by scrolling
 - User can click on a course to start learning
 - Unattempted courses have their icons shown in grayscale
- Course
 - Support all five type of question
 - Short Answer
 - Drag and Drop
 - Multiple Choice
 - True and False
 - Rearrange
 - User can get hints for each question
 - User can get feedback when the answer is wrong
 - Progress indicator
 - User can return to Course Map at anytime by either pressing the back button on their phone or click 'X' on the top left corner
 - Reward stars upon each courses' completion (**simulated**)
- Gist
 - Displays all knowledge points
 - User can click on a course title to expand the corresponding collection of knowledge points

The status report should describe your current progress on your system, what difficulties you are facing, and a short overview of the next month of development.

Current progress:

Functional: completed all basic functionalities of a course (see previous sections for details) using live data from an in-app SQLite database.

Compiler: we are currently using a web server to compile python inputs, planning on transitioning into a built-in compiler in the upcoming month.

Difficulties:

1. We are unfamiliar with making HTTP requests in Java, and there are limited resources online on this subject
2. Designing meaningful and intuitive questions

TODOs:

1. Optimize course map loading
2. Add ability to reset a question to initial state
3. Add Color & Font for Question instruction's keyword
4. Improve questions quality and quantity
5. Use in-app compiler for python code
6. Improve UI and Icon
7. Add small project

CodeTrip Component diagram

