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Software Engineering

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Technical Documentation

Installing:

The mobile app can be installed by cloning the repository:

<https://github.com/rutgerssoftwareengineering/Minerva.git> . Afterwards use the terminal in the same directory of the project and input these commands:

1. Git checkout mobile
2. Npm install
3. Npm start (make sure Chrome is installed on computer)
4. Download “Expo” on mobile device.
5. From expo window on chrome, click “tunnel” option.
 - a. If on Android: Click “scan QR Code” option on Expo app and scan QR code visible on chrome.
 - b. If on iOS: Click “Share link through Text” and send link to phone. Clicking link on the phone in message app will open Minerva Mobile App in Expo.
- a. Troubleshooting
 - i. For this demo, you need to install expo on your phone from the app store.
 - ii. You need to install npm on your computer
 - iii. There may be errors or warnings after installing. If node recommends running npm audit or npm audit fix:
 1. Go to package-lock.json file

2. Ctrl+F search for “braces”
3. “Micromatch” will have a “braces” dependency that is not above 2.0.0.
 - a. Find a “braces” version that isn’t above 2.0.0 and replace “braces” : {...}. With

```
"braces": {
  "version": "2.3.2",
  "resolved": "https://registry.npmjs.org/braces/-/braces-2.3.2.tgz",
  "integrity":
"sha512-aNdbnj9P8PjdXU4ybaWLK2IF3jc/EoDYbC7AazW6to3TRsfXxscC9UX0B5iDiEQrkyIbWp2SLQda4+QAa7nc3w==",
  "requires": {
    "arr-flatten": "^1.1.0",
    "array-unique": "^0.3.2",
    "extend-shallow": "^2.0.1",
    "fill-range": "^4.0.0",
    "isobject": "^3.0.1",
    "repeat-element": "^1.1.2",
    "snapdragon": "^0.8.1",
    "snapdragon-node": "^2.0.1",
    "split-string": "^3.0.2",
    "to-regex": "^3.0.1"
  },
```

- b. Then run npm audit to ensure that all errors are gone.

The web app can be installed by cloning the repository:

<https://github.com/rutgerssoftwareengineering/Minerva-Web-App.git> . Afterwards using the

terminal in the same directory of the project and input this commands: npm start

I. Troubleshooting

- Deleting the node modules and package-lock.json files and reinstalling them using `npm install` may fix any initial start up errors

II. Usage

Student Account:

- a. Upon start up, you can either log in with an existing account, or register with a new account. The app takes the login information, and queries the users in the database, and checks if the password and username match.
- b. Upon successful authentication, the left hand side contains a navbar for navigating to the Home Page, Forums Page, Quizzes Page, and Grades Page.
- c. Forums page: to view a thread, press on the thread's box and you will be redirected to view the entire thread. If you want to search for a particular thread, enter the name into the search box and click "Search". These threads are all queried from the database before loading the page. The search feature takes the queried data and filters it based on the search parameter.
- d. Quizzes page: You will see all of the available quizzes on this index page. Click on one to take it, and begin the quiz. A timer on the top left hand corner counts down until time runs out, and then the quiz will auto submit the selected answers. If you finished before the time runs out, press "Submit Answers" at the end of page. All quiz data is queried from the database with an asynchronous call and submitted quizzes are also posted to the database when done.
- e. The grades page will show all of the grades you have for each class that you are registered for. If you registered with a new account, you won't have classes yet. These are also queried from the database with asynchronous calls.
- f. To log out, press the log out button at the bottom of the navbar to exit. You will then be redirected to the login page.

Teacher

- a. Upon start up, you can either log in with an existing account, or register with a new account
- b. After authentication, the left hand side contains a navbar for navigating to the Home Page, Forums Page, Quizzes Page, and Announcements.
- c. Forums page: to view a thread, press on the thread's box and you will be redirected to view the entire thread. If you want to search for a particular thread, enter the name into the search box and click "Search"
- d. Quizzes page: The user will see the complete list of quizzes that are saved in the database. The user can then select one of those quizzes to edit it, or they can select the option to make a new quiz. In both cases, the user will be directed to a quiz creation page. Here, the user can add/remove questions and answers and populate their values as they desire. This interface also gives the user the option to specify a date for which the quiz should be administered as well as a time for how long a student should be able to spend on that particular quiz. Once the user submits the quiz, it is logged in the database for use by the student app.
- e. Announcements Page: The user will be able to create announcements for students that are registered for the user's class. This page displays a text input and a submit option which will submit that announcement to the database for use by the student app.

- f. To log out, press the log out button at the bottom of the navbar to exit. You will then be redirected to the login page.