

Boston University ECE

EC464 Senior Design

Second Prototype Testing Plan

ConnectBU

By Team 3

Team Members

Nadim El Helou nadimh@bu.edu

Hussain Albayat hussainb@bu.edu

Yousuf Baker ybaker@bu.edu

Benjamin Chan chanben@bu.edu

Damani Philip djphilip@bu.edu

Required Materials

Software:

- Front-end development
 - React.js
 - Material UI
 - Redux
 - Google Single Sign On
- Database
 - mySQL
 - Amazon Web Services Relational Database Service
 - Messaging API (SendBird)
 - Searching API (ElasticSearch)
- Back-end development
 - Python
 - Flask

Setup

For the prototype testing, we will be screen sharing the demonstration via Zoom. We will be showing all the web application's functionalities that have been implemented so far, including but not limited to navigation across pages, Google Single Sign On, Redux state management, cookie management, ElasticSearch, etc.

Pre-testing Setup Procedure

If you wish to test the prototype on your local machine, complete the following setup:

1. Go to [ConnectBU's GitHub repository](#) and clone the repository.
2. Install or update [npm](#) if you haven't already.
3. Install or update [Python](#) (Python 3.8.x) if you haven't already.
4. In the cloned repository, navigate to the backend folder and install the project's Python module dependencies by running the following:

```
$ pip install -r requirements.txt
```
5. Run the following commands to run the backend:

```
$ export FLASK_APP=app.py  
$ flask run
```
6. In the cloned repository, navigate to the frontend folder and install the project's node dependencies by running the following:

```
$ npm install
```
7. Run the following command to run the web application

```
$ npm run start
```
8. In your browser, navigate to “<http://localhost:3000>” to view the web app.

Testing Procedure

During this demonstration, we will be navigating through the pages of the web application.

1. Attempt to sign-in with a non-BU email address.
2. Sign in with a BU email.
3. Navigate to the profile page to show signed-up user's information.
4. Navigate to the messaging page and message another user.
5. Navigate to the search page and submit a search query.

Measurable Criteria

The criteria for successful running and output is as follows:

1. We are able to navigate through the different pages of the web application seamlessly and with ease.
2. We are able to sign-in with a BU email address.
3. We are restricted from logging in with a non-BU email address.
4. We are able to see a signed-up user's profile information on the profile page.
5. We are able to send and receive a message through the chat page.
6. We are able to submit a search query and view the results.