Campus Connect

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End of Term Presentation

Implementing

Features:

-   Account Profiles
-   Student Search Function
-   Direct Messages
-   Message Boards

Status: In progress
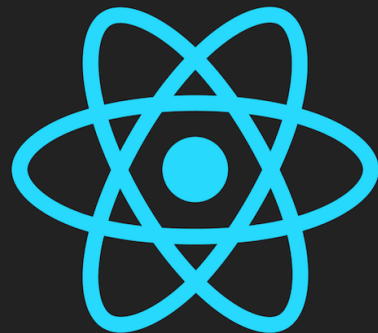
The learning Curve

Understanding

- React-native
- Reactjs

Object Oriented

- Component interaction

This framework is very flexible => Complexity

- Navigation
- Input validation

Mock Data Added

- Simple entries that followed constraints that were previously set up
- Used for testing of application

	ID	Email	FirstName	LastName	Department	AcademicYear
☐ 🖉 Edit ᗷ Copy ⊖ Delete	1001	christian@csub.edu	Christian	Durrell	Arts and Humanities (AH)	Junior
☐ 🖉 Edit ᗷ Copy ⊖ Delete	1002	aldric@csub.edu	Aldric	Coye	Business and Public Administration (BPA)	Freshman
☐ 🖉 Edit ᗷ Copy ⊖ Delete	1003	hillie@csub.edu	Hillie	Vurley	Arts and Humanities (AH)	Junior
☐ 🖉 Edit ᗷ Copy ⊖ Delete	1004	dalt@csub.edu	Dalt	Van der Kruis	Natural Sciences Mathematics and Engineering (NSME...	Freshman
☐ 🖉 Edit ᗷ Copy ⊖ Delete	1005	rik@csub.edu	Rik	Seville	Business and Public Administration (BPA)	Sophomore

What is an API?

- An API (application programming interface) is a very useful tool for mobile and web apps.
- Acts as an interface between the user applications and the data that the user sees
- Can be thought of as a virtual middle man
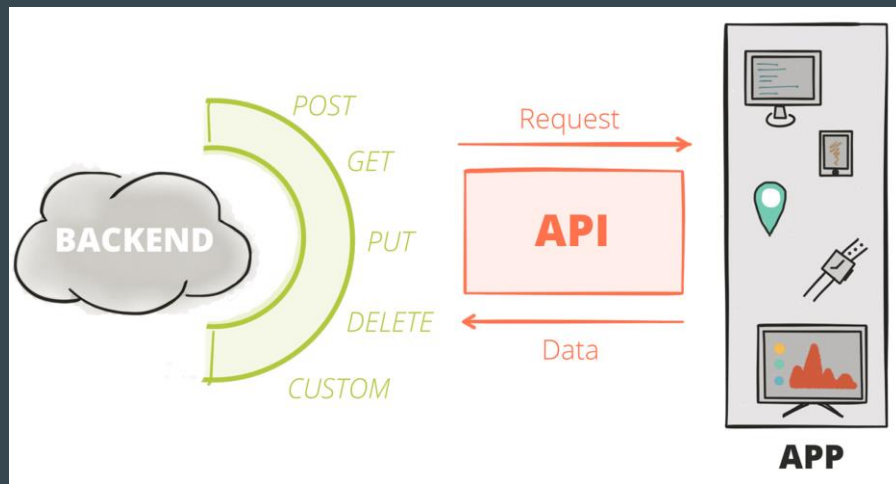
API Creation

- Exists on our digital ocean server
- Implemented in PHP
- For now, simple functions are present that will become more complicated as the project progresses
- Returned in a format that is easy to handle for the React Native framework

```php
<?php
define("HOST", "localhost");
define("USERNAME", "root");
define("PASSWORD", "c4m9pis0");
define("DATABASE", "CampusConnect");
$link = mysqli_connect(HOST, USERNAME, PASSWORD, DATABASE);
if (!$link) {
  echo('no connect');
    die('Could not connect: ' . mysql_error());
}
?>
```

```php
<?php
require_once('connect.php');
    $fetch = mysqli_query($link, "SELECT * FROM Users");
    $return_arr = array();
    while ($row = mysqli_fetch_assoc($fetch)) {
        $return_arr["users"][] = $row;
    }
    echo json_encode($return_arr);
?>
```

Testing the API

- Postman is a very useful application to test endpoints
- Shows how the data is returned to help with formatting

```
 1  {
 2      "users": [
 3          {
 4              "ID": "1001",
 5              "Email": "christian@csub.edu",
 6              "FirstName": "Christian",
 7              "LastName": "Durrell",
 8              "Department": "Arts and Humanities (AH)",
 9              "AcademicYear": "Junior"
10          },
11          {
12              "ID": "1002",
13              "Email": "aldric@csub.edu",
14              "FirstName": "Aldric",
15              "LastName": "Coye",
16              "Department": "Business and Public Administration (BPA)",
17              "AcademicYear": "Freshman"
18          },
19          {
20              "ID": "1003",
```

Login/Signup and Fetching User Data

Profile and Account setting

=>
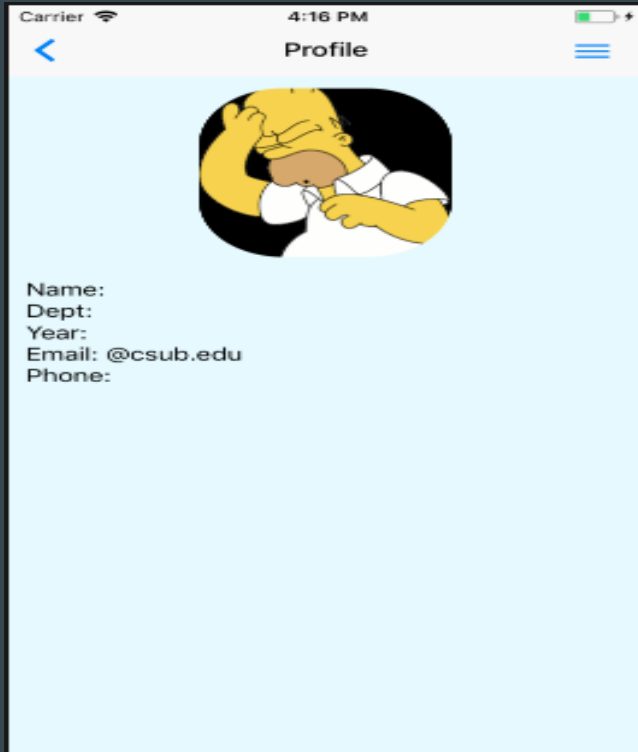
Goals Since Last Presentation

- Fix React-Native errors causing members to be unable to run project (Complete)
- Create login and signup screens (In progress)
- Fetch and display user data from database (Complete)
- Insert input data into database (In progress)

Future Goals

- Insert data from app into database
- Design app to look nicer
- Messaging feature
- Message board feature