CAPSTONE PROJECT

Web based Messaging Engine
Group 10

Functionalities & Milestones

Developing a web based app which incorporates messaging features.

- Created new database model for FileUpload. Common storage mechanism for image storage. - 1/12/18
- Added ngx-bootstrap for designing layout, angularfire2 module for Firebase backend services such as storage, database and auth. - 21/11/18
- Allows users to chat with people online and communicate in different rooms. - 10/12/18
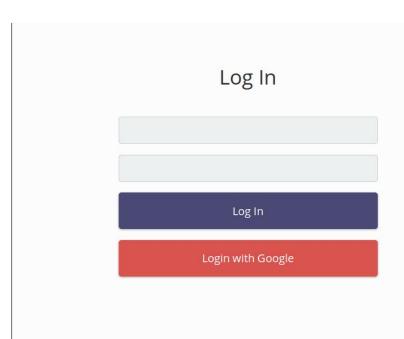- Allow users to upload pictures. - 18/12/18

Technologies

Applications & Frameworks :

- Angular,
- Angular-cli
- Npm
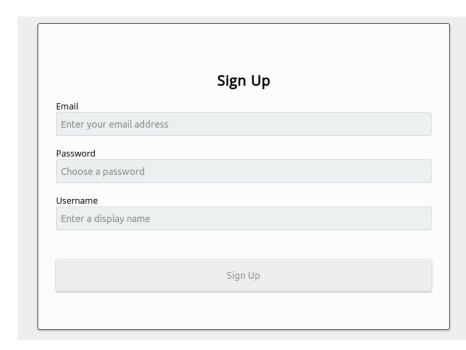- NodeJs
- Firebase

Languages used :

1. TypeScript
2. HTML/CSS

Work Done So Far

Login Component with Google Auth


```html
<div class="container">
  <div class="loginCard">
    <h2 class="heading">Log In</h2>
      <input
        [(ngModel)]="email"
        type="email"
        name="email"
        class="formInput" />
      <input type="password"
        [(ngModel)]="password"
        name="password"
        class="formInput" />
      <button class="btn"
              id="btn-login"
              (click)="login()">
              Log In
      </button>
      <button type="button"
              class="btn btn-danger btn-block"
              (click)="tryGoogleLogin()">
              Login with Google
      </button>

  </div>
</div>
```

Work Done So Far

Signup Component

Sign Up

Email

Enter your email address

Password

Choose a password

Username

Enter a display name

Sign Up

```
1   <div class="container">
2     <div class="signUpCard">
3       <form #signupForm="ngForm">
4         <h2 class="heading">Sign Up</h2>
5
6         <label class="label">Email</label>
7           <input
8             type="email" name="email"
9             placeholder="Enter your email address"
10            [(ngModel)]="email" class="formInput"
11            maxlength="60" required/>
12
13        <label class="label">Password</label>
14          <input
15            type="password" name="password"
16            placeholder="Choose a password"
17            [(ngModel)]="password" class="formInput"
18            required/>
19
20        <label class="label">Username</label>
21          <input
22            name="displayName"
23            placeholder="Enter a display name"
24            [(ngModel)]="displayName" class="formInput"
25            maxlength="12" required/>
26
27        <button [disabled]="!signupForm.form.valid"
28                type="submit" (click)="signUp()"
29                class="btn" id="btn-signUp">
30                Sign Up
31        </button>
32      </form>
33    </div>
34  </div>
35
```

Work Done So Far

Upload File Component

```
export class FileUpload {

  key: string;
  name: string;
  url: string;
  file: File;

  constructor(file: File) {
    this.file = file;
  }
}
```

```
selectFile(event) {
    const file = event.target.files.item(0);

    if (file.type.match('image.*')) {
      this.selectedFiles = event.target.files;
    } else {
      alert('invalid format!');
    }
}

upload() {
    const file = this.selectedFiles.item(0);
    this.selectedFiles = undefined;

    this.currentFileUpload = new FileUpload(file);
    this.uploadService.pushFileToStorage(this.currentFileUpload, this.progress);
}
```

Browse...   No file selected.   Upload
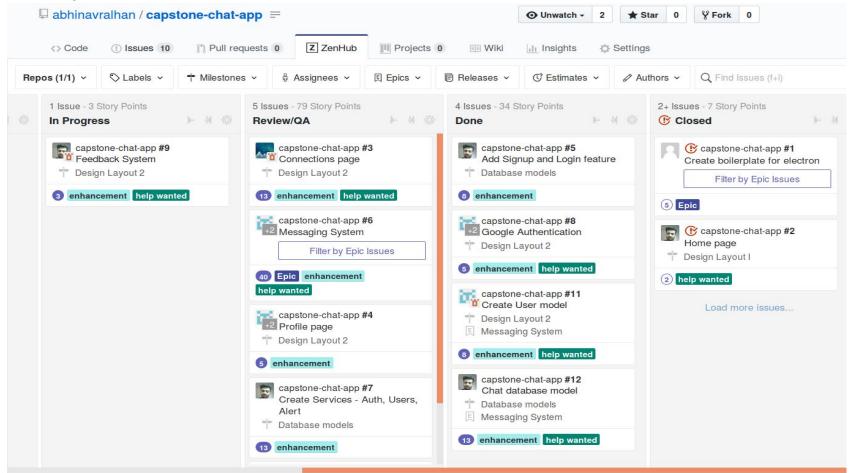
Work Done So Far

Chatroom Component


```
1  export class ChatMessage {
2      $key?: string;
3      email?: string;
4      userName?: string;
5      message?: string;
6      timeSent?: Date = new Date();
7  }
```

```
1  export class User {
2      uid?: string;
3      email?: string;
4      username?: string;
5      displayName?:string;
6      password?: string;
7      status?: string;
8  }
9
```

Software Tools

Zenhub Updates

Software Tools - Docker


```
abhinav@abhinavr8:~/Desktop/os/chatapp$ sudo docker run -p 4300:80 -i 70719cb7a576

> base-chat@0.0.0 start /usr/src/app
> ng serve

** NG Live Development Server is listening on localhost:4200, open your browser on http://localhost:4200/ **
Date: 2018-12-19T13:22:42.448Z
Hash: ea115947c5b08d0cfe4c
Time: 13633ms
chunk {inline} inline.bundle.js (inline) 5.79 kB [entry] [rendered]
chunk {main} main.bundle.js (main) 251 kB [initial] [rendered]
chunk {polyfills} polyfills.bundle.js (polyfills) 548 kB [initial] [rendered]
chunk {styles} styles.bundle.js (styles) 35.7 kB [initial] [rendered]
chunk {vendor} vendor.bundle.js (vendor) 24.2 MB [initial] [rendered]

webpack: Compiled successfully.
```

```
abhinav@abhinavr8:~/Desktop/os/chatapp$ sudo docker image ls
REPOSITORY          TAG       IMAGE ID         CREATED         SIZE
firstbuild/v2       latest    70719cb7a576     2 hours ago     1.34GB
chatapp2            latest    70719cb7a576     2 hours ago     1.34GB
chatapp             latest    70719cb7a576     2 hours ago     1.34GB
firstbuild          latest    70719cb7a576     2 hours ago     1.34GB
firstbuild          v2        70719cb7a576     2 hours ago     1.34GB
```