DxMood

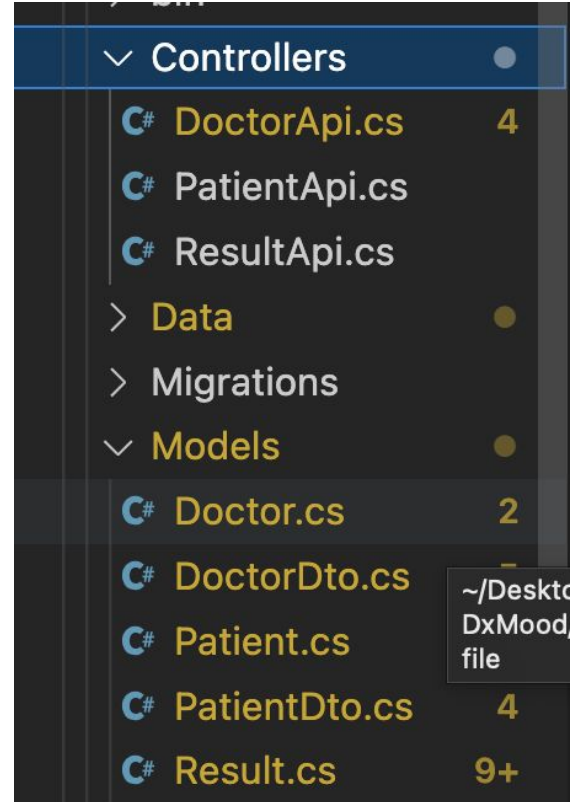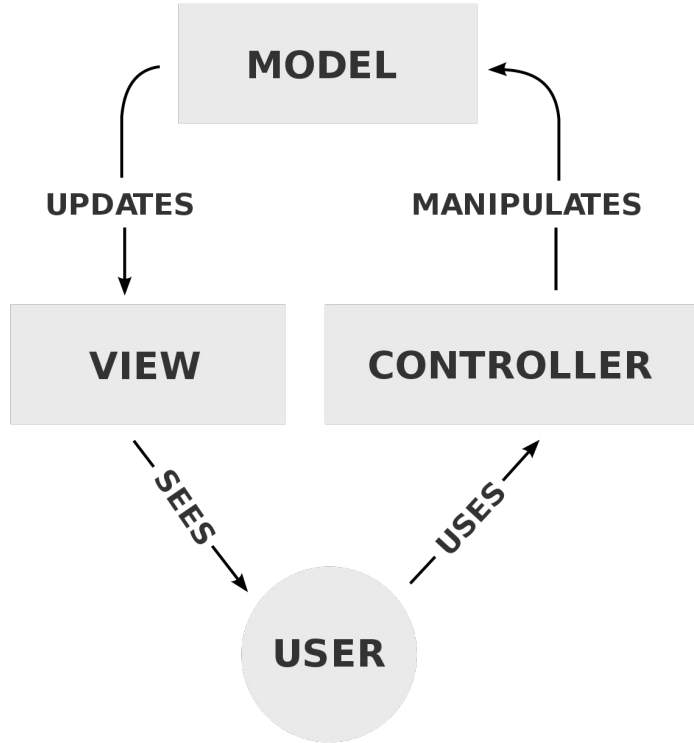Group 5: Trey Thompson, Isabel Nelson, Brady Underwood & Kait Flinn

Project Description

- Goal: Broaden Accessibility to Diagnose and Treat Patients for Mental Illness

- Approach:
  - Have patients take online tests to measure
  - Doctor logs onto portal and enter scores
  - Algorithm will compute a diagnosis based on scores
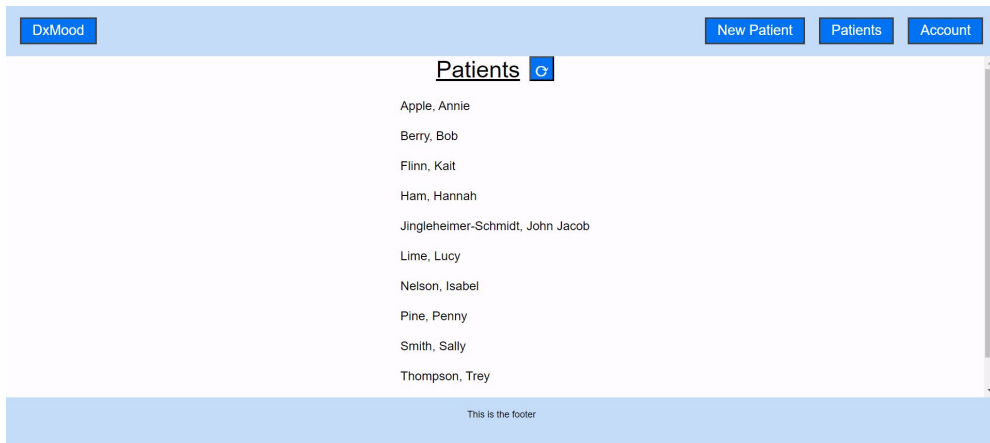 - Result saved and analyzed by doctors

Design Pattern

```
           ┌─────────────────┐
           │      MODEL      │
           └─────────────────┘
            │               ↑
       UPDATES          MANIPULATES
            ↓               │
┌──────────────┐   ┌──────────────────┐
│     VIEW     │   │    CONTROLLER    │
└──────────────┘   └──────────────────┘
         ↓                   ↑
       SEES               USES
            ↘   ┌───────┐ ↗
              ( USER )
                └───────┘
```

.NET Full-Stack Web Application

Front End

- Low Fidelity Prototype

- Figma Design

- HTML & CSS

- JavaScript

- API Calls (Axios)

Back End

- C#

- Swagger (RESTful API)

- Models/Controllers

- SQL

DoctorApi

DELETE `/doctor/{id}`

GET `/doctor/{id}`

PUT `/doctor/{id}`

POST `/doctor`

POST `/doctor/login`

PatientApi

GET `/patient/{id}`

DELETE `/patient/{id}`

PUT `/patient/{id}`

POST `/patient`

ResultApi

GET `/result/{id}`

DELETE `/result/{id}`

PUT `/result/{id}`
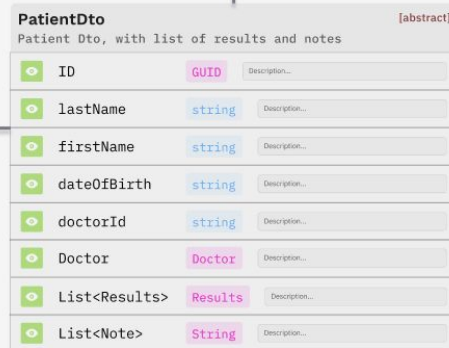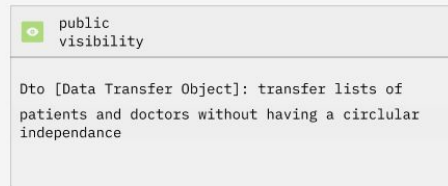
POST `/result`

Database

Azure Data Studio

- "Code-First" Approach

- Firebase :(

- Public Azure Database

  - Managed w/Microsoft Azure Data Studio

- SQL Commands (CRUD operations with Back-End)

- Publicly Hosted

Patient
Patient Object [abstract]

👁 ID	GUID	Description...
👁 lastName	string	Description...
👁 firstName	string	Description...
👁 dateOfBirth	string	Description...
👁 doctorId	string	Description...
👁 Doctor	Doctor	Description...

Doctor
Doctor object, login [abstract]

👁 ID	GUID	Description...
👁 lastName	string	Description...
👁 firstName	string	Description...
👁 username	string	Description...
👁 password	string	Description...

👁 public visibility

Dto [Data Transfer Object]: transfer lists of patients and doctors without having a circlular independance

DoctorDto
Doctor Dto, with list of patients [abstract]

👁 ID	GUID	Description...
👁 lastName	string	Description...
👁 firstName	string	Description...
👁 username	string	Description...
👁 password	string	Description...
👁 List<PatientDto>	Patients	Description...

PatientDto
Patient Dto, with list of results and notes [abstract]

👁 ID	GUID	Description...
👁 lastName	string	Description...
👁 firstName	string	Description...
👁 dateOfBirth	string	Description...
👁 doctorId	string	Description...
👁 Doctor	Doctor	Description...
👁 List<Results>	Results	Description...
👁 List<Note>	String	Description...

Result
Test results and additional notes [abstract]

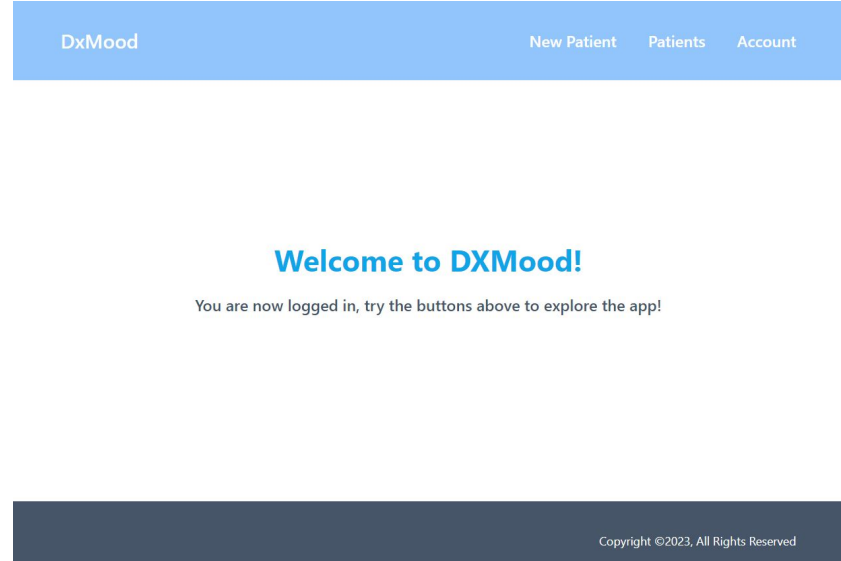|		
👁 ID	GUID	Description...
👁 phq9	int	Description...
👁 gad7	int	Description...
👁 isi	int	Description...
👁 asrs	int	Description...
👁 diagnosis	string	Description...
👁 recommendedMedication	string	Description...
👁 resultGenerated	string	Description...
👁 note	string	Description...

Continuous Integration

User Testing Report

Bugs:

- Blank welcome page

- Familiarity with site

Overall:

- Intuitive and straightforward design

DxMood

New Patient   Patients   Account

Welcome to DXMood!

You are now logged in, try the buttons above to explore the app!

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Moving Forward

- Full diagnosis table

- More secure database with true authentication

- New Azure Server

  - More Powerful Database with more data

  - Temporary subscription that has a monthly charge

- Delete Doctor, Patient, Result Implementation

- Update Methods created with new diagnosis table for returning patients

Web App Demo