



Team Members:

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Inspiration & Goals

Our hope is that this website will be a tool help diabetic patients treat themselves more effectively in the future

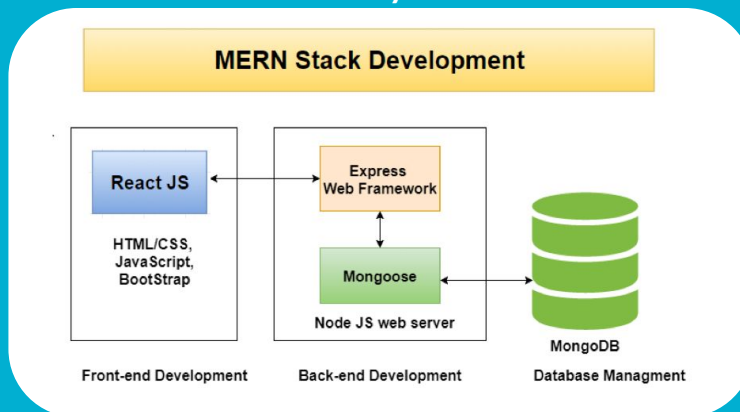
Features:

- Allows upload of glucose monitor data
- Provides survey for treatment tracking
- Implements an algorithm for optimized diabetes management
- Provides other visual graphs as a tool for the patient

Backend



- MERN stack framework- Mongo, Express, React, Nodejs
- Used mongoose package to connect to MongoDB from the React Application
- Uses middleware to verify user access
- User access is stored in cookies so they will automatically signed in if they never logged out



Database



- Uses hashing to encrypt users' passwords
- Compares user id with JSON web Tokens between the 2 databases to ensure you only see your data

User credential database

```
{
  "_id": "ObjectId('654d140476c040c1439675')",
  "name": "test2",
  "email": "test2@gmail.com",
  "password": "$2s10535n/jrML7QpK0M/OTBCgehuNN2jpxUCjgBHTbuQbvd663ebcC",
  "createdAt": 2023-11-09T17:18:03.361+00:00,
  "updatedAt": 2023-11-09T17:18:03.361+00:00,
  "__v": 0
},
{
  "_id": "ObjectId('654d206c29fedeb2817396e')",
  "name": "testing",
  "email": "testing@gmail.com",
  "password": "$2s1055ejp6nLLldy6vqo2/81rfNOYfyRT1ET1WM/uwF8JdbJ2zfgyrAHS",
  "createdAt": 2023-11-09T18:36:41.930+00:00,
  "updatedAt": 2023-11-09T18:36:41.930+00:00,
  "__v": 0
},
{
  "_id": "ObjectId('654e325c923672af4c47e920')",
  "name": "Nayana Patel",
  "email": "nrayanapatel@gmail.com",
  "password": "$2s1055e4nS1KMTB4nMkC5zTuBq7qBTt9P5z3Mc8/QwDrJmfGekFUG",
  "createdAt": 2023-11-10T13:38:214+00:00,
  "updatedAt": 2023-11-10T13:38:214+00:00,
  "__v": 0
}
```

User entry Database

```
{
  "_id": "ObjectId('654e33a923672af4c47e934')",
  "user": "ObjectId('654e325c923672af4c47e920')",
  "mealName": "11111111",
  "mealDate": 1111-11-11T00:00:00.000+00:00,
  "mealTime": "11:11",
  "insulinDose": 1111,
  "insulinTime": "11:11",
  "carbCount": 1,
  "__v": 0
},
{
  "_id": "ObjectId('654e3379923672af4c47e937')",
  "user": "ObjectId('654e325c923672af4c47e920')",
  "mealName": "test",
  "mealDate": 1111-11-11T00:00:00.000+00:00,
  "mealTime": "11:11",
  "insulinDose": 11111111,
  "insulinTime": "11:11",
  "carbCount": 111111111111,
  "__v": 0
}
```

Importing Data



PaxPal Log Entry Import Data Logout

Import CSV

Choose Files Clarity_Exp...141020.csv

Imported CSV Files:

Clarity_Export_Walsh_Chase_2023-09-07_141020.csv

Select CSV File: Clarity_Export_Walsh_Chase_2023-09-07_141020.csv Remove

Run Algorithm Show Graphs

Features:

- Importing CSV data files
- Removal of files
- Selecting of files
- Buttons to toggle in between Graphs and Algorithm

Algorithms



- High BSL Event v Low BSL Event
- Hourly Trends
- Suggestions
 - Unsuccessful Mealtime - High&Low
 - Check carb count or insulin dosage - High&Low
 - Insulin Time check - High
 - Insulin stacking - Low

Video

