Project Sprint #6

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TASKS ACCOMPLISHED

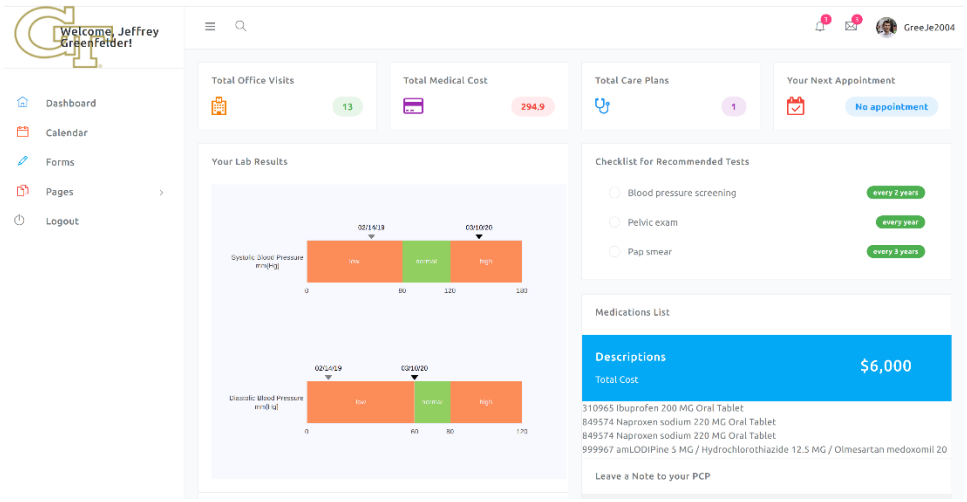
Shiyi has finished integrating the test-results plot into the dashboard and connecting it to the database. Now the dashboard can reflect the real blood pressure data from the patient. The next step is to change the visualization details, such as font and font size to match the .CSS settings for the other plots.

Baiyan updated the icons corresponding to "office visits", "medical cost", "care plans", and "appointment" sections, and built a pipeline to query the gender and age of the current patient-user and generate personalized health screenings recommendation. Health screening tests are stored in a yaml file and grouped by gender and age. The next step is to complete the pipeline and the yaml file to cover all the age groups. Optionally, the color could be updated to reflect the priority and frequency of different tests.

Yi created and modified the database models, including the appointment table, medication table, careplan table, encounter table, observation table, and procedure table. Yi also wrote the corresponding queries for the frontend display. Now, the medication and next appointment information can be fetched from the database and shown in the frontend.

Aijing modified the MySQL database by adding one more table for scheduled appointments. She also wrote codes to fetch values or aggregated values of an office visit, medical cost, and care plans for the logged-in user. The next step is to update the section of 'leave a note to your PCP' by adding PCP's names and contact info.

Haojie Yu investigated how to use data transfer objects and aggregate data within the Flask framework. Haojie also investigated how to do a post call using JavaScript and pass JSON data to the Flask. The challenge is to implement her investigations and test the codes.



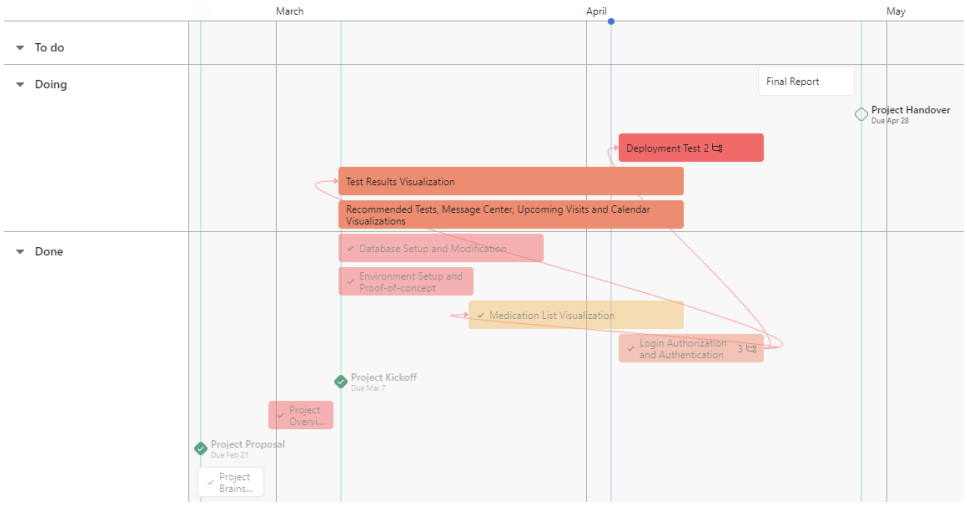
CHALLENGES

The team does not have experience in doing database model that has a one-to-one relationship or one-to-many relationship within the Flask framework. Another huge challenge is to make a calendar interactive and display appointments. Overall, there remains a great amount of development work to complete in the coming week.

PLANS AHEAD

We will first try completing the index page setup. We also need to fix the issue on the database to map the username to the corresponding patient, particularly the authentication issues. Next week, we are going to conduct some research to develop the website for Heroku.

Updated timeline



Task name	Due date	Tags	Priority	Dependencies
To do				
Doing				
Recommended Tests, Message Center, Upcoming Visit	Mar 7 – Apr 10	Sprint5 Sprint6 Sprint7	Medium	
Test Results Visualization	Mar 7 – Apr 10	Sprint4 Sprint5 Sprint6 Sprint7	Medium	✓Login Authorization and Authenticati...
Deployment Test 2	Apr 4 – 18	Sprint8 Sprint9	High	✓Login Authorization and Authenticati...
Project Handover	Apr 28	Sprint10		
Final Report	Apr 18 – 27	Sprint10		
Add task...				
Done				
Project Kickoff	Mar 7	Sprint2		
Project Overview & Planning	Feb 28 – Mar 6	Sprint2	High	
Project Proposal	Feb 21	Sprint1		
Database Setup and Modification	Mar 7 – 27	Sprint3 Sprint4 Sprint5	High	
Environment Setup and Proof-of-concept	Mar 7 – 20	Sprint3	High	
Project Brainstorm and Proposal	Feb 21 – 27	Sprint1		
Medication List Visualization	Mar 20 – Apr 10	Sprint5 Sprint6 Sprint7	Low	✓Login Authorization and Authenticati...
Login Authorization and Authentication 3	Apr 4 – 18	Sprint8 Sprint9	Medium	Depl... ✓Me... Test ...