PlannerCORTEX

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Agile

- We chose this method because of its flexibility and our unfamiliarity with software development
- This method proved very useful after some last minute changes had to be made to the front end

Repository: Github

-We used Github because we were all already familiar with how it works. We also chose it because of its reliability.

-Enabled Collaboration

Database Tools:

-Database for user's personal information and entered tasks.

MySQL Connector (python)
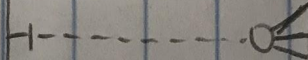
-We used Python to connect our database to the server
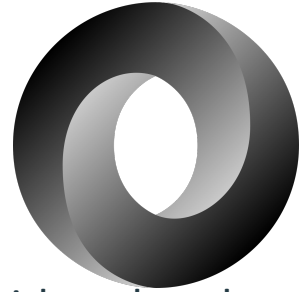
Database = MySQL

Users

uID	int
Password	VARCHAR(30)
email	VARCHAR (50)
userName	VARCHAR (50)
cat1	VARCHAR (20)
cat2	VARCHAR (20)
cat3	VARCHAR (20)
cat4	VARCHAR(20)
cat5	VARCHAR(20)

Tasks

tID	tinyText
Starttime	DATETIME
endtime	DATETIME
priority	tinyint
taskName	VARCHAR (50)
note	VARCHAR (300)
email	tinyint
uID	int
cat	tinyint

FOREIGN KEY

Server & Front End

-The connection between the server and web pages is build with websockets not normal sockets; we are able to realize functions quickly instead of constructing package byte by byte and worrying about whether data is received completely or not.

-After a user logs in, the server will assign a specific set of credentials to the client for further operation.

-The credential is the sha256 value of the user info, remote address and timestamp.
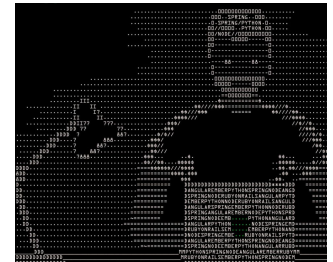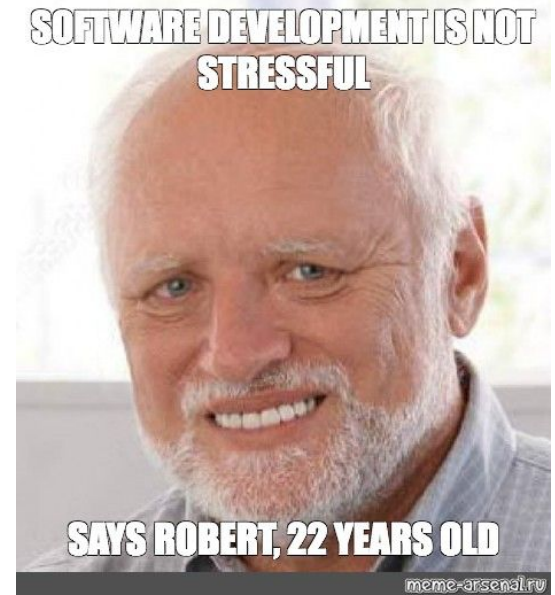
Deployment: LocalHost ★★★★

Server creates a listening socket that binds with port 8888 of localhost, and waits for requests from web pages.
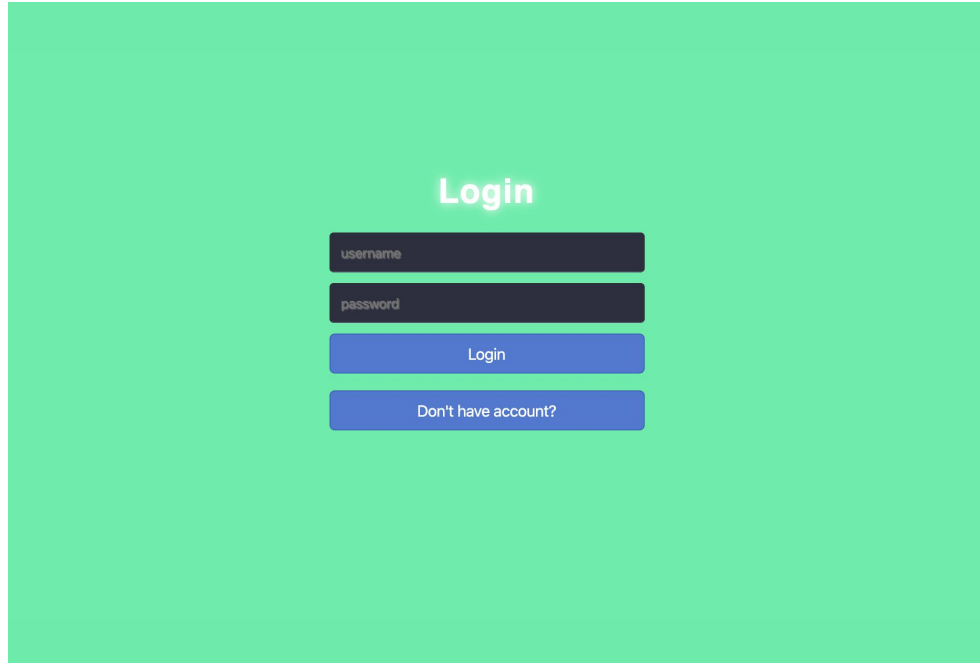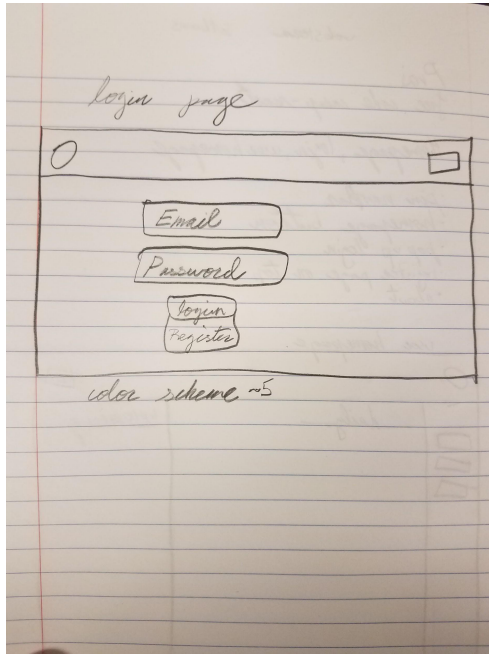
We decided not to use a third party deployment environment because of convenience

Challenges

- One group member leaving two weeks before project was due
  - She built the front-end with unfamiliar tools (Eg. React)
  - We were unable to connect the original front-end after her departure
  - Therefore, a redesign of the server and front-end was necessary
  - Altered our original plans for our planner to be targeted towards people with ADD
- Familiarizing ourselves with new technologies
- Imagination VS implementation

Design Plan VS Implementation

Features

- Sign up
- Login
- Add task, select attributes
- View tasks accordingly

DEMO