Project Management

1. PEOPLE



a.

b. Project Lead

- i. PM guidance
- ii. Issue escalation
- iii. Ensure project progress
- iv. Mid-term evaluation
- v. Implement student feedback

c. Student (DEV)

- i. Own user story
- ii. Complete tasks in Trello
- iii. Push code to GitHub
- iv. Present to clients

d. Project Manager (PM)

- i. Schedule meetings
- ii. Add tasks to Trello
- iii. Address blockers
- iv. Document student feedback

e. Instructor

- i. Oversee project direction
- ii. Define user stories

- iii. Evaluate datasets
- iv. Support TPM and PMs
- f. Technical Project Manager (TPM)
 - i. Review completed tasks
 - ii. Answer technical questions
 - iii. Setup GitHub and Trello
 - iv. Load data to BigQuery

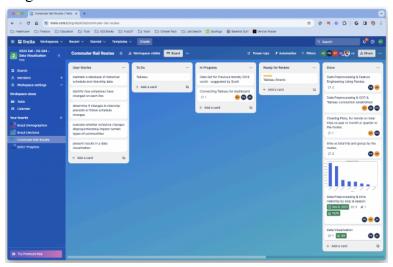
2. Clients



a.

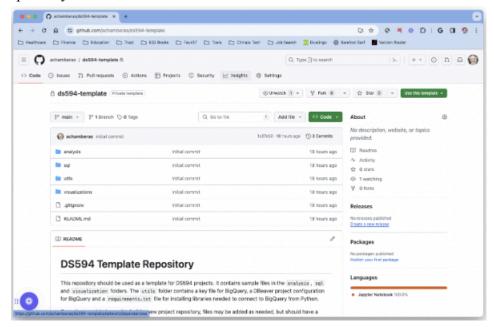
3. TOOLS

a. Task Management - Trello



- i.
- ii. Why Trello?
 - 1. Simple
 - 2. Supports Kanban
 - 3. Task assignment
 - 4. Notes/Comments
 - 5. Flexible
 - 6. Project status

b. Code Repository - GitHub



- i.
- ii. Why GitHub?
 - 1. Collaboration
 - 2. Backup
 - 3. Review
 - 4. Prevent conflicts
 - 5. Project repository
- c. Project Database Google BigQuery



- i.
- ii. Why BigQuery?
 - 1. Data from various sources
 - 2. Data to multiple tools
 - 3. Share data across projects
 - 4. Scalable
 - 5. Data streaming

d. Analysis & Visualization

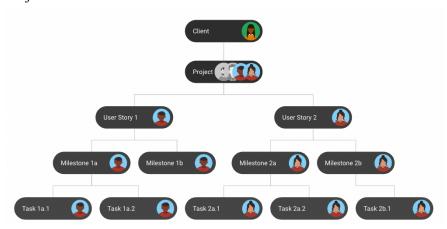


i.

- ii. Use what makes you comfortable
- iii. Satisfy client requirements
- iv. Consider learning something new
- v. Tableau recommended

4. Processes

a. Project Structure



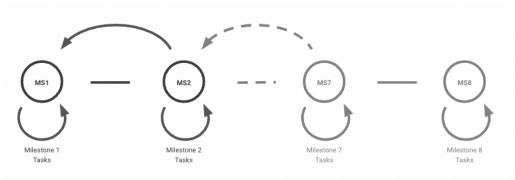
b. User Stories

- i. Describes one of several client business problems
- ii. Each student selects one user story
- iii. Use data, analysis, and visualization to address this problem

5. Milestones

- a. Data preparation
- b. Exploratory analysis
- c. Chart selection
- d. Color selection
- e. Labels

- f. Preattentive attributes
- g. Layout and Interaction
- h. Final sponsor presentation
- 6. Project Lifecycle



a.

7. Task Lifecycle



b. Backlog

- i. The project manager creates a task related to a milestone or based on client feedback, and assigns it to a student.
- ii. Each task has a definition of done
- iii. Tasks are prioritized here per client needs

c. In Progress

- i. The student begins work, moving the task to "In Review" when they feel it is done.
- ii. If there are issues, the task is moved to "Blocked"

d. In Review / Blocked

- i. The technical project manager reviews the task and moves it to "Done" if complete.
- ii. Otherwise it goes back to "In Progress" with feedback

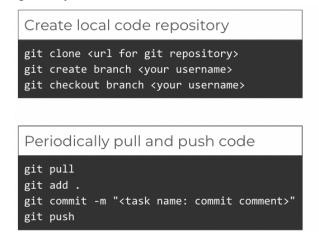
e. Done

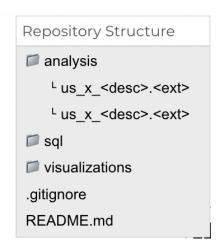
i. The student summarizes their work in a presentation format

f. Present

i. The student presents all completed tasks to the client since their last meeting

8. Code Repository





9. Meetings

- a. Client Kickoff-Off Meeting
- b. Team Standups
- c. Client Progress Meetings
- d. Retrospective Meetings

10. Project Selection



a.