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Team Contract

What is the expected level of achievement?

After discussing this project together, we've all agreed on the following levels of achievement:

- Get an A on this project
- Create a solid piece of software we can be proud of
- Avoid all-nighters
- Divide work evenly

What is the expected effort for each team member?

We expect each team member to put in an equal amount of work. Although this is a 12 unit class, we anticipate that to achieve the goals we have set (see "What is the expected level of achieve"), we will likely have to spend more than that.

What are your personal goals for this project?

In addition to sharing the goals of the team, we each have other goals we hope this project will teach us.

Harihar: Create a clean API

Danielle: Build a usable but powerful front-end

Ryan: Write a non-trivial recommendation system

Tawanda: Develop a redundancy-minimizing, efficiently query-able database schema.

What is the frequency, length, and location of team meetings?

We will meet after each 6.170 lecture. We will meet for a minimum of 30 minutes (ideally for 45 minutes). We will meet at the Stata cafe. In addition to this, we will have our regular weekly one-hour mentoring meetings with the TA, which will be held at a classroom which we will be told about later. We will have additional ad-hoc meetings and coding sessions as needed. These will vary in length and location.

When we are not meeting, we will have an active email list where we will update each other on progress, ask questions, and offer help.

How will you maintain quality of work?

When we commit code, we will require the following:

- 1) Specifications for nontrivial functions
- 2) Tests for nontrivial functions
- 3) Comments describing nontrivial lines of code
- 4) Attempt to adhere to Google JavaScript style guide
 - a) <https://google-styleguide.googlecode.com/svn/trunk/javascriptguide.xml>

We will make an effort to ensure that each line of code is looked over by at least two team members.

We will set our deadlines before the actual project deadlines. This will give us more time to fix bugs and ensure robust code.

We will attempt to maintain a reasonable git workflow (ex. checkout branches to work on a feature and merge back into dev).

How will tasks be assigned?

Tasks will assigned according to interest (i.e. what the team member would like to do), availability (i.e. what the team member can do), and ability (i.e. what the team member is best at).

All of us will attempt to work on all the features, and we will try to ensure that each of us does both frontend and backend development. However, Danielle and Harihar will focus on the frontend, while Ryan and Tawanda will focus on the backend.

Currently, it appears that the key development tasks, with tentative lead authors, are:

- 1) Frontend (interaction) - Danielle
- 2) Frontend (style) - Danielle
- 3) Frontend (integrate with backend API) - Harihar
- 4) Backend (API) - Harihar
- 5) Backend (database models) - Tawanda
- 6) Backend (authentication and security) - Tawanda
- 7) Backend (recommender system) - Ryan
- 8) Backend (integrate with Locu API) - Ryan

Again, these assignments are tentative, and may change based on interest, availability, and ability.

All team members will be responsible for writing tests and specifications for their code.

All documents/diagrams will be drafted by one or two team members, and the remaining team members will proofread it, work on supporting content (graphics, small sections, research into other topics), make corrections, and add/remove content when needed.

What will be done if deadlines are missed?

If we miss a deadline (either a project deadline or a deadline we set for ourselves), we will take different actions based on the reason for missing the deadline:

- 1) **Not enough time:** If we did not have time to complete all the tasks for the deadline, we will scale back our project by cutting down or simplifying the features we plan to implement. This way, the project becomes simpler and more attainable in the time we have available.
- 2) **Due to involuntary absence of team member:** If a team member is unable to complete his/her work due to illness, injury, or any other non-work emergency, the remaining team members spread his/her work among each other.
- 3) **Due to voluntary absence of team member:** If a team member does not complete his/her work due to other work in classes or other obligations which is substantially more time consuming than the work/obligations of the remaining team members, the work will be spread among the remaining team members. The absent team member will be expected to perform their tasks and some additional work for the next deadline.
- 4) **Due to knowingly uncommitted team member:** If a team member does not complete his/her work and provides no reason, then they will be expected to more work for the next task. If they fail to do so, we will discuss this problem with the 6.170 staff.

How will decisions be made?

When a team member proposes a decision, he/she will be given a few minutes to explain the motivation for the decision and why it will be useful to the project. Then, we will work together to brainstorm potential problems that may come up and how to resolve them. A brief implementation strategy will be discussed. Finally, we will vote and accept the decision if there is a majority vote.

How will disagreements be resolved?

If two team members disagree, the other two can serve as arbiters and settle the dispute. If the entire team disagrees, we will attempt to reach a compromise. If no compromise can be reached, we will ask our 6.170 TA to serve as an arbiter.