

Teamwork Plan

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Stakeholders

- **Users**
 - Our users will primarily be people looking for easy dating with a stronger connection than would be provided like an attraction-based application like Tinder.

Resources

- **MongoDB**
 - Database infrastructure. We can combine this with the Mongoose library to easily manipulate data.
- **Mocha**
 - Unit testing will be used where possible, and we think Mocha will make using it very easy.
- **Facebook API**
 - Used to create user profiles and mitigate the risk of fake profiles.
- **IMDb Movie API**
 - Used to categorize movies that users input.
- **OpenShift**
 - Hosting. Using OpenShift will allow us to use our custom domain, andchill.co, for free.

At the scale we will be utilizing these services (during 6.170), we do not expect to incur any costs outside the small fee we paid for our domain.

Tasks

Note that we did not include tests in our task list because a feature is not considered complete until it is tested and is covered by automated tests.

Task	Due	Effort	Assignee
Design Document	Nov 13 11pm	3 days	Entire group
Motivation	Nov 13 11pm	30 mins	Hugo

Concepts	Nov 13 11pm	60 mins	John
Data Model	Nov 13 11pm	60 mins	John
Security Concerns	Nov 13 11pm	30 mins	Rosemond
UI	Nov 13 11pm	90 mins	Arman
Design Challenges	Nov 13 11pm	30 mins	Hugo
Teamwork Plan	Nov 13 11pm	3 hours	Entire group
Create Node Project	Nov 14	1 hour	John
MVP Implementation	Mon Nov 23, 11pm	7 days	Entire group
User Profile	Mon Nov 23, 11pm	7 days	Entire group
User data model	Mon Nov 16	1 day	John
Users can log in with Facebook	Wed Nov 18	1-2 days	Arman
Users can input movies they like	Sat Nov 21	1-2 days	Hugo
Users can input a short biography	Sat Nov 21	1 day	Arman
Possible Chops	Mon Nov 23, 11pm	7 days	Entire group
Chop data model	Mon Nov 16	1/2 day	John
Users matched with up to 10 possible Chops per day	Tue Nov 17	1-2 days	John
Generate suggested movies for a Chop	Sat Nov 21	2-3 days	Hugo
Users can view Chops	Wed Nov 18	1 day	Rosemond
Users can accept/reject Chops	Thu Nov 19	1 day	Arman
Accepted Chops	Mon Nov 23, 11pm	7 days	Entire group
Users can view list of accepted Chops	Fri Nov 20	1 day	John

Users can chat with accepted Chops	Mon Nov 23	1-2 days	John
Homepage	Mon Nov 23, 11pm	7 days	Entire group
Create homepage view and site template	Wed Nov 18	1-2 days	John
Final Implementation	Sun Dec 6, 11pm	2 Weeks	Entire Group
Ratings	Fri Dec 4	4 days	Entire Group
Database schema for ratings	Sun Nov 29	1 hour	Arman
Users can rate other users	Tue Dec 1	1 day	Rosemond
Users can view their own ratings	Wed Dec 2	1/2 day	Hugo
Users can view others' ratings	Wed Dec 2	1/2 day	Hugo
UI Refinement	Fri Dec 4	1 Week	Entire Group
Modernize/improve UI on all pages	Fri Dec 4	1 Week	Arman
Possible Chops	Fri Dec 4	2-3 Days	Entire Group
Use IMDb API to tag user profiles based on what movies they like	Thu Dec 3	1 day	John
Possible chops based on tags (instead of random)	Fri Dec 4	1-2 days	Rosemond
Provide suggestions for Chops	Tue Dec 2	2 days	John
Code Improvement	Sun Dec 6, 11pm	4 Days	Entire Group
Refactor models	Sun Dec 6, 11pm	1/2 Day	
Refactor views	Sun Dec 6, 11pm	1 Day	

Refactor controllers	Sun Dec 6, 11pm	1/2 Day	
Thoroughly test entire application	Sun Dec 6, 11pm	2 Days	Entire Group

Risks

- Implementation Risks
 - **API Usage:** Since we'll be using 3rd party APIs there's the possibility to them not facilitating the functionality we desire or be clunky in nature. In either case we can abstract the problems they may present and apply different methods to solve them, consider using other publicly available API's (in the case of IMDB) or simply readjust our approach.
 - **Matching Algorithm:** We'll be using some kind of algorithm to match two users based on their interests. The algorithm has to be finely tuned in order to not be too broad or too narrow, else run the risk of matching users who are too dissimilar or not provide a user with any matches at all!
- UX Risks
 - **Malicious bots:** As with many other dating applications, malicious users arise with the intention of stealing personal information or routing users to a malicious website. Having users verify their identity through facebook will definitely help however fake facebook users is still a possibility. We help mitigate this potential issue by implementing user ratings. That way bad users will be very unlikely to receive any matches at all.

MVP

Concepts

- **Chop:** A Chop is a "chill opportunity" in which user A is shown another user B's short biography and some movies A and B are likely to enjoy together (a "Suggestion"). Chops may be accepted or rejected.
 - User A "accepts" a Chop if she is interested in user B's profile.
 - A Chop is "mutually accepted" if two users A and B accept Chops for each other.
 - Only a limited number of potential Chops are shown to users each day.
 - A Chop may be un-accepted at any time.
- **Suggestion:** A Suggestion is a list of activities that our algorithm determines would be mutually interesting to both people in a Chop.
 - In the MVP, we will not implement a suggestion algorithm.

- **Chat:** A Chat is a communication channel opened between two users with a mutually accepted Chop.
 - Users may send messages to each other in a Chat.
- **Profile:** A Profile defines basic information about a user, such as what movies the user likes and a short biography.
 - Users may utilize Profiles to determine if they are interested in a Chop.
 - Profiles may include information from outside sources such as Facebook.
- **Tag:** A Tag represents a user's interest in an object, such as a movie, director, or movie genre.
 - For instance, if user u has a "Kill Bill" Tag, then u is interested in Kill Bill.

Issues Postponed

- **Chop Quality Assurance:** In our MVP, we will not take profile information into account when providing Chops.
 - As such, Suggestions in the MVP will be random or hard-coded.
- **Tag:** Users should be able to input movie titles and have relevant tags automatically added.
 - In our MVP, users will be able to enter movie titles, but no data will be automatically pulled.
- **Ratings:** We will not implement ratings in the MVP because we do not expect the MVP to be successful enough to attract many malicious users or bots. Users will be able to undo Chop acceptance, and this will be adequate for our MVP.
- **Security:** We will not make use of encryption until the final version, as this adds a significant amount of complexity and takes time that we could use to add eye candy.
- **Beauty:** Though we will build the MVP's views to be extensible, we will focus mainly on features until the final version. This means our MVP will be well designed and usable, but it may be ugly.