Process Plan Document: What Do U Want?

**1. Introduction**

**1.1 Project Overview**

The software is meant to optimize the decision making process for groups of people making a multi-optional decision.

**1.2** **Project Scope**

The scope of the project is to allow a group of users in a chat room to make a decision as fast as possible given input from all of the group members. Suggesting possible options for users to choose is out of the scope for this project. Mobile compatibility is also out of the scope.

**2. Process Description**

**2.1 Project Lifecycle**

We plan to follow the iterative-and-incremental model of software development. During each phase, we’ll also keep in mind and work on other phases of the software development, though we may pay more attention to the phase in question than the other (at the time) accessory phases. Our iterative-and-incremental model ended up turning into a full-scale waterfall, tackling the chat feature, then the login authentication, then the multiple room aspects, then the decision making aspect.

**2.2 Process Activities**

System Design: Deciding what the system will do, how we want the UI to look, what features the system should have, etc. By the end, we should have a solid idea of exactly what we want the system to do and how the system should function.

Message Board: Coding a module that allows multiple users to communicate across devices through a chat function. Users should be able to type any string of characters into a chat bar to allow others that are in the group to see them. Users should also be able to invite others into a group chat by telling them the name and password of the room.

Prompt/Chart: Another module that will allow users to pose a prompt and invite other users to partake in said query. A pie chart will pop up that will show different colors that represent different solutions to the question that users have suggested. Users will be able to add suggestions and choose from among the suggestions the solution to the prompt that they like most by clicking on the part of the chart that represents that solution (one vote per person). Anyone will have the option to dismiss it or to have a spinner choose a suggested solution randomly with assigned weights according to how many people voted for each suggestion.

Testing: Test the system by acting as a user and going through simulations on each of the modules to make sure they do what they are intended to do. Additionally, our code and database will be thoroughly tested with Travis CI by using PHPUnit to run SQL queries against the database and assert what the count of various elements should be pre and post query.

**3. Roles**

**3.1 Team member names**

**The team is comprised of the following 4 people:**

1. Kachi Onyenokwe
2. John Melloni
3. Ayodeji Marquis
4. Wyatt Doiron-Larue

**3.2 Roles Table**

|  |  |
| --- | --- |
| **Roles** | **Responsibility** |
| Tester | Integrate the GitHub repository with Travis CI. Develop test scripts and test plan documents. |
| Project Manager | Delegates tasks, produces an outline of the project’s design and description to the rest of the team. |
| Developer | Responsible for coding most of the back-end functionalities. |
| Design Lead | Responsible for the UI and how the UI interacts with the users. |

**3.3 Role Assignment Table**

|  |  |
| --- | --- |
| **Roles** | **Name** |
| Tester | **Kachi Onyenokwe** |
| Project Manager | **John Melloni** |
| Lead Developer | **Ayodeji Marquis** |
| Pie Chart Developer | **Wyatt Doiron-LaRue** |
| Design Lead | **Ayodeji Marquis** |

**4. Estimates & Schedule**

**4.1 Effort Estimate**

Our very rough estimates for the following metrics:

- Effort hours: **88 person days -> 4hrs/person day -> 352 man-hrs**

- Lines of code: ***<50k lines***

- Defects: **<50 defects**

**4.2 Schedule**

The table below shows our estimated schedule which will be subject to changes as the project gets further along in its timeline.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **#** | **Task** | **Estimated Effort (person - days)** | **Start Date (dd/mm/ yyyy)** | **End date (dd/mm/ yyyy)** | **Person** | **Actual Effort (man-hrs)** |
| 1 | System design | 8 | 9/19/2016 | 9/26/2016 | John | 8 |
| 2 | Detailed design | 12 | 9/26/2016 | 10/3/2016 | Wyatt, Deji, John | 16 |
| 3 | UI Design | 16 | 10/3/2016 | 10/17/2016 | Deji | 30 |
| 4 | Database Set-Up | 8 | 10/17/2016 | 10/24/2016 | John, Deji | 40 |
| 5 | Developing (PHP and JavaScript | 12 | 10/24/2016 | 10/31/2016 | Wyatt, John, Deji | 200 |
| 6 | Test planning | 8 | 10/31/2016 | 11/7/2016 | Kachi | 10 |
| 7 | Testing and integration | 16 | 11/7/2016 | 12/5/2016 | Kachi | 10 |
| 8 | Rework and final | 8 | 12/5/2016 | 12/7/2016 | Kachi, Wyatt, Deji, John | 50 |