**Project Description**

**CS 4321 – Fall 2015**

1. **Problem Statement**

You will develop an auction system that utilizes either Google Apps Script:

<https://developers.google.com/apps-script/>

or Google API:

<https://developers.google.com/products/>

* You are required to use either the Spreadsheet service (Google Apps Script) or the Sheets API (Google API) as your database
* You must use at least 2 more services or API’s.
* You will develop a client-server system which allows for more than one user at a time.
* You will use a solid, flexible object-oriented design.

1. **Groups**

You will form your own groups with exactly 4 members. When you have formed your group, one person in the group should email me (using the proper subject for th/e email) the full name of each person in the group. This should be completed by 5pm Wednesday, August 26.

1. **Next Steps**
2. Begin to learn the technology. Parts of your team should begin this process. I would suggest completing this by roughly September 16.
3. You will prepare a requirements document which will be due approximately September 23 with a presentation shortly after. An outline will be provided soon. This document will include two broad things that you can get started on immediately:
4. You will do a domain analysis to see what systems already exist, what functionality they provide, how users rate these systems, *etc*.
5. You will specify what functionality your system will have.
6. After the requirements document, you will design your system, produce a test plan, implement your system, and test it. Each of these will produce a document. More information will be forthcoming.
7. **Effort Allocation**

You will record **all** time (including thinking, meetings, *etc*) that you spend for this project using the Time Recording Log (TRL) found on the next page. All times will be attributable to the Activity Codes in the table below:

|  |  |
| --- | --- |
| **Code** | **Task** |
| **B** | Any Background activity, learning a new technology, reading to obtain background information, *etc*. |
| **A** | Any activity related to requirements analysis and specification. |
| **D** | Any activity related to design. |
| **C** | Any coding activity that directly contributes to the working code-base. |
| **T** | Any activity related to testing. |
| **P** | Any activity related to preparing for presentations. |

1. **Project Roles and Tasks**

For this project, you must choose a Project Lead. A *Project Lead…*

* Has oversight of the entire project.
* Has good organizational and people skills.
* Makes sure task assignments (expectations, due date) are written and understood.
* Holds people accountable for completing task assignments correctly and on time.

A successful project means a successful team. Thus, you should strive for:

* Communication, collaboration, and a willingness to compromise. There will be many situations where there are several opinions on how to proceed. You must learn the art of compromise. You must listen to people carefully, and speak to them respectfully.
* Group members taking ownership for tasks and/or roles, completing them correctly and on time.
* Meeting regularly, with a specific agenda including the presentation of status reports, deliverables.

In addition, these roles will be useful: chief architect, coder, test plan designer, UI designer, database designer, domain analyst, documenter, UML creation guru.

***Time Recording Log***

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Tyler Cabutto** |  | **Log Sheet** | **1** | **of** | **4** |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Date** | **Begin**  **Time** | **End**  **Time** | **Interrupt**  **Time (min)** | **Total Time (min)** | **Total Time (hrs)** | **Activity Code** | Comments |
| 08/27/2015 | 2:40AM | 2:55AM | 0 | 15 | 0 | B | Looked up Google API |
| 08/31/2015 | 4:30PM | 5:12PM | 0 | 42 | 1 | B | Weekly Calibrations. Set goals and deadlines for domain analysis, etc. |
| 09/01/2015 | 11:45AM | 12:00pm | 0 | 15 | 0 | B | Researched Google Apps Script |
| 09/02/2015 | 12:08PM | 1:10PM | 20 | 40 | 1 | B | Domain analysis research |
| 09/06/2015 | 12:30PM | 3:28PM | 30 | 148 | 2 | B | Domain analysis research |
| 09/09/2015 | 4:45PM | 5:05PM | 0 | 20 | 0 | B/A | Weekly Calibrations. |
| 09/16/2015 | 12:10PM | 1:10PM | 0 | 60 | 1 | B | Polished up domain analysis before sending it off. Added a few more items discovered from reading online. |
| 09/21/2015 | 4:50PM | 6:15PM | 10 | 75 | 1 | A | Weekly calibrations. Continued project requirements and got user case done. |
| 09/21/2015 | 6:30PM | 6:45PM | 0 | 15 | 0 | A | Spoke ideas to wife of requirements and came up with direction for project. |
| 09/21/2015 | 10:40PM | 12:50AM | 10 | 120 | 2 | A | Worked on use case diagram |
| 09/22/2015 | 1:30AM | 2:30AM | 0 | 60 | 1 | A | Finished use case diagram for project requirements. |
| 09/27/2015 | 8:20PM | 10:09PM | 20 | 89 | 1 | B | Projects requirements finalization of diagram and description. Started on functional and no-functional requirements. |
| 09/28/2015 | 11:25AM | 12:55PM | 0 | 90 | 1 | B/P | Functional requirements complete. Started preparing for presentation. |
| 09/28/2015 | 3:15PM | 3:40PM | 0 | 25 | 0 | P | Prepared for requirements presentation |
| 09/28/2015 | 11:00PM | 11:50PM | 0 | 50 | 0 | B | Played with google apps script some more |
| 10/13/2015 | 1:00AM | 2:00AM | 0 | 60 | 1 | D | Researched and created rough diagrams to get idea of approach to architecture design. |
| 10/21/2015 | 3:30PM | 5:00PM | 0 | 90 | 1 | D | Weekly calibrations. Met with team and continued working on class diagram. |
| 10/21/2015 | 1:30AM | 2:30AM | 0 | 60 | 1 | D | Continued cleaning up class diagram. |
| 10/25/2015 | 3:30PM | 5:00PM | 0 | 90 | 1 | D/P | Finished up document and prepared for presentation |
| 10/28/2015 | 3:30PM | 4:00PM | 0 | 30 | 0 | P | Prepared for presentation |
| 11/02/2015 | 3:30PM | 5:00PM | 0 | 90 | 1 | T | Worked on black box testing with team |
| 11/03/2015 | 12:00pm | 2:00AM | 0 | 120 | 2 | T | Worked on black box testing |
| 11/07/2015 | 10:00PM | 11:00PM | 0 | 60 | 1 | T | Finished test cases |
| 11/09/2015 | 4:00PM | 5:00PM | 0 | 60 | 1 | B | Met with team to discuss time management for code. |
| 11/13/2015 | 10:00AM | 1:00PM | 30 | 180 | 3 | C/B | Set up domain for code and tested functionality of VS online. |
| 11/15/2015 | 9:00PM | 12:00AM | 0 | 180 | 3 | B | Set up work board and deadlines to discuss with group |
| 11/16/2015 | 3:30PM | 5:00PM | 0 | 90 | 1 | B | Online calibrations discussing work board and deadlines. |
| 11/16/2015 | 6:00PM | 1:30AM | 60 | 450 | 7 | C | Began coding and set up skeleton for Home page and Account page. |
| 11/17/2015 | 9:30PM | 1:00AM | 0 | 210 | 2 | C | Cleaned up pages and began working on some code for pages. |
| 11/18/2015 | 3:30PM | 4:30PM | 0 | 60 | 1 | B | Met with team to answer any questions or concerns. |
| 11/18/2015 | 5:00PM | 1:30AM | 60 | 510 | 8 | C | Began working on account setting and cleaned up other pages. |
| 11/21/2015 | 9:00PM | 2:00AM | 20 | 240 | 4 | C | Began coding other pages |
| 11/26/2015 | 11:30PM | 3:00AM | 60 | 210 | 3 | C | Created design for two pages. |
| 11/27/2015 | 10:30AM | 1:30PM | 0 | 120 | 3 | C | Coding pages |
| 11/28/2015 | 8:00PM | 2:00AM | 30 | 420 | 7 | C | Completed All Items page; Finished design of Tickets page |
| 11/29/2015 | 12:00PM | 12:20AM | 120 | 164 | 12 | C | Worked on css for all pages, and admin home page. |
| 11/30/2015 | 4:00PM | 5:00PM | 0 | 60 | 1 | B | Online meeting with group to set goals and deadlines |
| 11/30/2015 | 5:00PM | 3:00AM | 30 | 600 | 10 | C | Began coding home page, create account page, and account settings page. Update changes to database. |
| 12/01/2015 | 10:00AM | 1:15PM | 20 | 195 | 3 | T | Began testing create account page, cleaning up |
| 12/04/2015 | 10:00AM | 11:30AM | 0 | 90 | 1 | C | Began applying fixes to Create account page |
| 12/04/2015 | 12:00AM | 1:40AM | 0 | 100 | 1 | C | Made changes to db, fixed syntax on create account page for cmd connection. Prepared default values for demo/testing purposes. |
| 12/05/2015 | 11:00AM | 3:00AM | 180 | 240 | 4 | C | Group coding session until 7pm. During that time I worked on polishing create account page, began working on item page, and home (default) page. Afterwards, worked on all items page, and login page with Brandon and made changes to the database. |
| 12/06/2015 | 6:30PM | 7:00AM | 60 | 750 | 12 | C | Worked with Brandon on Account page, and MyItemsPage, creating sessions on home page, session checkpoints on account settings page. Worked on all items page, made changes to database, created a post item page. |
| 12/07/2015 | 11:00AM | 3:00PM | 0 | 240 | 4 | C | Group session with everyone while we added functionality to item page, fixes to home page, all items page, while Andrew worked on presentation for testing. |
| 12/07/2015 | 3:00PM | 3:25PM | 0 | 25 | 0 | P | Prepared for demo |
| 12/08/2015 | 4:30PM | 5:30PM | 0 | 60 | 1 | C | Fixed formatting of account page, made changes to account settings page. |
| 12/09/2015 | 12:00AM | 2:40AM | 0 | 160 | 2 | C | Worked on adding image upload on post item page, and adding it to item page. |
| 12/10/2015 | 10:00AM | 2:20PM | 0 | 260 | 4 | C | Finished errors on bid item page and cleaned up my items page. |
|  |  |  |  | Total | 114 |  |  |