PID

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1 Project Goals

The overall goal of this project is to build/remake the RedLab student archive system in flask using python so that it is more responsive and has more active features. Napier University students and staff will be able to log in with their personal accounts, upload projects, create comments or just browse other users uploaded material thus creating an intuitive user-friendly instructive website.

While the website is public, only Napier Student/Staff would be able to upload any kind of content whilst still giving the possibility to any guest user to freely browse any interesting project; which will be categorized under the use of a tags system which will help the user pinpoint any item of interest s/he might be looking for.

2 Scope

This web-app implemented with flask and python will accomodate mainly three different types of accounts. There will be one above the administrative, which will be the first one to be created, a second administrative type of account, below the first one, and a normal user account. Once a new account is created it is by default set as guest .All administrative users would have the power to 'promote' normal user guests to administrative; which will allow lecturers, staff members to easily change type of account. The only radical changes an administrative user and a ordinary user would have would be the ability to promote other accounts, the option to take down someone's project if required or the power to delete unnecessary comments; both administrative users and normal ones will have the ability to browse the website and upload their own files.

At the moment a user which is not a member of Napier University will not be able to create and utilize and account but can still view the public website.

All the project will be sorted under specific categories thanks to the search system relying on tags, which will allow one to be able to browse specific sections of the website of his/her own interest in the hope.

3 Approach

As this is a software project the platform that will be used is flask so as to create a python Website/application. The University JKCC will be used as- well as a dedicated development server that will be used. The team will be broken down into two sub-teams which are the programmers which will work on the web development side of things using python and flask, and the designers who will work on the semantics of the site and how intuitive and easy to use it will be. They will also choose the colour schemes and the logos as well as how the categories are laid out for the project archive's and the placement of all the different features that the programmers will be implementing

Possible subject to change in the future

4 Project Organization

Ross Chapman = Project Manager Bradly Jones = Programmer Mengzhao Yang = Programmer Hong Hong = Designer Bowen Zhang = Designer Mattia Formento = Programmer

5 Business case

The main purpose of this site is too garner interest and awareness of the oppor- tunities that are available at the university. To a lesser extent this will also be

useful as a way of submitting coursework for the many modules at the univer- sity and the next year that same module can use the previous year's projects to teach the current years students. It will also allow people who are interested in certain aspects of computing to learn what kind of projects are going on at this time.

6 Constraints

There are some constraints pertaining to this project such as the fact that there is a definite non-flexible deadline so there is a definite time-constraint. Also the team are all doing two other modules which means that some time must be allocated to doing those modules which will again detract from the team working on the project. There are some people within the group that have had less experience with python than others and this could cause the team to not be able to accomplish ambitious tasks easily. There is unfamiliarity within the team as this is their first time working together and there could be barriers that have not been realized yet.

7 Stakeholders

The major stakeholder is the university as they are the ones fronting the system. Inside the university as a whole the other stakeholders are the students who post the projects and the staff who manage the system. Also the staff who post projects of their own also. The IT staff as-well as they will have to maintain the server being up. Also the main stakeholder is Brian Davidson as he is the one who has put this project forward.

8 Risks

Since the team are students they will have other modules that might get quite difficult which would detract valuable time from working on the project as a group which may have and adverse impact on the project moving forward. Some of the team have part time jobs such as Ross Chapman as he works all day on Saturdays and Sundays so he wont be able to work on the project at weekends which will mean he wont be able to work on it as much as some of the others. There are other module's course-works coming out at the moment which will begin to take focus away from working on the project as a team as some of the members will want to get a head start on the other course-works which will take time again off of working on the group project. There are some in the team who will be going abroad during the Easter break which means that over that period the team will be a few members down for working on the project. On top of all of this there are the unforeseen circumstances that may arise such as a team member getting ill or a team members family could get ill. Also there

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may be celebratory things such as weddings and birthdays which could detract time from the team working on the project as a whole.

9 Project Controls

There is a git-hub project where all the code that is written will get pushed too this so that everyone can easily see what code has been done and who done it. There are meetings within the team only when progress or something requiring everyone's opinion is needed so as we are not wasting valuable time in pointless meetings. Tasks are assigned and that person or group of people will go away and work on that task; Then when progress has been made a meeting will be held. During the meetings minutes will be taken so that it is possible to look back at previous meetings.

10 Reporting Frameworks

There will be a work in progress report that will contain the progress that has been made so far as well as any problems that have arisen that are not easily solved. Then there will be an end project report that will be part of the final handover. Then there will be a presentation where the team will present the finished product to the client in a formal presentation at the university. With regards to how the team will report to each other as discord will be used for most communication with messenger being used only as a backup when it is urgent to get in touch with someone and the benefit of using discord is that it has a search feature which means you can search through previous messages to find a specific one. Also if it is an important post it can be pinned so that it goes in a section that is easy to find.

11 Schedule

12 Appendix

13 Learning Goals

Ross Chapman:- I chose to take on this module to learn more about project management as i have never done anything like this before. Being in a place of responsibility is a new experience to me and i hope to learn how to effectively manage a group of people in a nice and cooperative way. This will help me gain insight into how the world of projects and project management works in general

14 Sign

Project Managers Signature ————————————

Client's Signature ————————————