

Team Projects

Internet Technology
ITECH

Overview of Team Projects

Design Specification (10%)

- Presentations need to be professional
- Focus on communicating the design to the client
- Show consideration for the users, include novel features
- You will receive feedback on application design
- Deadline: 06 Feb 2017

Project Presentation (5%)

- Updated slides of your initial design specification
- Your chance to demonstrate your app.
- 5 minutes talk, 3 Q/A
- Presentations will take place on Week 10!

Project application (25%)

- Deployed in <u>pythonanywhere</u> and source code in <u>GitHub</u>
- Should be up and running in order to get your mark!
- Deadline: 15 Mar 2017

Know your Team!

- Your team should consist of 4 students (max)
- The team should be a mix of IT, CS, SD, ...
- Your team mates will influence your final INDIVIDUAL mark...
 - So choose wisely!
- Team Projects are like a 48 hours hackathon spread over 2 and a half months!

Team Activity

- Your group will need to come up with an application to develop
 - You can find inspiration from the Design Briefs in ITECH's Moodle page!
 - Next week, we will go over a Design Specification from previous year

Team Activity

Agree on a team name

Application name

- What's the aim of your app?
 - Bullet points
 - Get a draft idea, you will refine it over the coming weeks

PROJECT BRIEFS

Overview of Briefs

- Rate This Course
- Participants Wanted
- Personalized Information Search Tool
- Requirements and Design Tracker
- Go Fish: a game
- Zombie Survival

RATE THIS COURSE

RTC Requirements

- The client would like to create a site to let student's rate courses that they take at the University.
- This app should allow users of the site to enter course details (if needed), and provide a rating and comments about the course.
- For course details it should include the course code, course name, course year and lecturer name.

RTC Specifications

- For the ratings, the user needs to enter the course, their overall rating of the course, and their comments.
- The site should let users find a course and see all the comments and ratings
- It should let users see a list of the latest ratings/comments
- It should let users see a list of the best/worst rated courses
- The front page should present the latest comments, the best/worst rated courses, and some form of search/navigation of courses

RTC Specifications

- To register students will need to provide a valid university email
 - The email should be confirmed, before they can add ratings.
 - The admin of the site would be like to be able to add in different universities, and the email domain for legit universities.
- Courses can be added to the system by students
 - Some check to make sure the course has not already be added should be included

PARTICIPANTS WANTED

Participants Wanted

- Need to run an experiment but need willing participants?
- Want to earn some extra cash, or would like to learn more about research?
- Tries to match participants and experiments.

PW Requirements

- Students at a university should be able to register with the PW system, and complete a demographics survey (age, sex, first language, home country, education level, email, etc)
- Students will be able to browse through the list of current experiments (which meet any requirements i.e. age, language etc),
- When they identify an experiment that they would like to participant in they can select it, and see the details of that experiment.

PW Requirements

- The student can then offer to undertake the experiment, by expressing their interest (like making a bid)
- The student will be able to look at available experiments, past experiments that they have undertaken, and experiments currently bid on.
- If a student's bid is accept the student is notified (through the interface and via email)

PW Requirements

- It would be nice if the system could
 - send out the list of up and coming available experiments
 - Offer slots/times when they could undertake the experiment
- An experimenter should be able to register with the system (entering in their details, name, title, school, web page, contact info, etc)

PW Experimenter Reqs

- The experimenter should be able to enter in an experiment
 - (start and end date,
 - accepting bids (true or false),
 - number of participants required,
 - number of participants so far,
 - experiment title, experiment details, and possibly a link to more information)
- The experimenter should be able to view bids, screen participants anonymously, and then accept or decline the participants offer.

PW Main Page

- The main page should encourage the participants to register
 - Provide a login box
 - Link to experimenter page/view
 - If signed in, link their profile page
 - If signed in, they should get a notification of any experiment that they have been accepted for
- It should show summaries of the last 5 experiments entered,
- It should show 5 summaries of experiments with up and coming closing dates,
- And 5 summaries of experiments which pay the most reward (and that are currently open).

PW Other requirements

 It should be possible to view all available experiments (ordered by latest, closest and payment) – user do not need to be logged into to view, but then do if they want to bid.

Variation

- Instead of trying to find participants, the same application could be called InternFinder
 - Where companies are looking for interns
 - And students are looking for internships

PERSONALIZED INFORMATION SEARCH TOOL

Search Tool Requirements

- Choose a search engine (Bing, Flckr, Arixv.org) to create a search tool for web, news, photos, papers, etc.
- Users of your search service should be able to register/login – so that their searches can be saved.
- Users will be able to create a topic which they will then conducted searches, and save documents to.
- All queries issued when searching for information about that topic should be recorded – so that they can go back and revisit previous search results.

Search Tool Requirements

- User should be able to mark documents as interesting/useful
- For each topic they should be able to see
 - what queries they performed (and be able to delete queries that were not useful)
 - and what documents that have marked useful
- They should be able to see the list of topics that have saved, they can add/edit/delete topics

Search Tool Requirements

Would like features include:

- The system should highlight results previously seen
- The system should exclude showing documents they have marked not useful
- The system should be able to exclude results from certain domains
- The system should be able to only show results from certain domains
- The system should let users share documents with others via social media (i.e. tweet this link).

REQUIREMENTS TRACKER

Requirements Capture Tracker

- Creating the specifications list and capturing the requirements of a system is collaborative and ongoing process
- The aim of this application is to help collect the these requirements and specifications.
- This is like a collaborative TODO list

RCT Requirements

- A developer should be able to register, and create a project
- Other developers can be added to the project
- A developer's page shows an overview of the list of projects that they are working on
- On a project page a developer can see the list of requirements already taken, and add other requirements

RCT Requirements

- The project page should look like a board, where the specifications can be grouped into different categories (must/should, could would like), and ordered by priority.
- When a specification is entered, a date/time is associated with it, it has a priority level (1 to 5, 1 being the highest), and has a category (as described above), and a short description.
- The specification is associated to a project

RCT Requirements

- Would like features to include
 - A way to track or mark versions so that it can be possible to view previous versions and how the projects have been iterated.
 - Specifications can be dragged between categories and ordered

GO FISH

Go Fish Game Idea

- The game is based around the idea of fishing
- A player is assigned a certain amount of time to go fishing
- They select a spot to fish (this takes time), and then decide how long to fish for (which also takes time)
 - For example it might take 30 minutes to go to a fishing site
 - Then they can spend 15 minutes fishing
 - Then can then decide whether to keep fishing, or move to another site
 - After they fish, they are informed as to how many fish they have caught

Go Fish Requirements

- The game continues until the player is out of time
 - The number of fish they catch, determines how much money they get at the end of the game
 - Money is used to buy upgrades
 - Upgrades consistent of better boats (which makes travel time cheaper)
 - Scanners to indicate if fish are in the patch

Go Fish Requirements

- A game (round of fishing) consists of a number of fishing patches
 - Each patch has a payoff (number of fish)
 - Depending on how long the player spends depends on how many fish are caught for instance
 - Payoffs = [0, 0, 1, 3, 0, 0, 2, 0, 0]
 - First fishing 0 fish, second 0, third 1, fourth 3, and so on.
 - These patches can be varied to change the difficulty and challenges

Go Fish Requirements

- The game can be text based, graphical, or some kind of representation
- The game should keep track of the user's progress through a series of games.