**Web Application Description**

Request for Ethical Approval of Experiment Web Application (REQETH) facillitates the process by which students at Robert Gordon University obtain ethical approval to conduct an experiment. Using the application students create approval request records which consist of

* information about the experiment,
* ethics considerations and
* supplementary files that support the request (e.g. signed consent forms).

Once a request has been submitted an administrator (Adm) assign two different Experiment Approval Officers (EAO) to each request. EAO’s can view and comment on requests assigned to them as well as indicate if a request is approved, rejected or should be re-assigned to the student to supply additional information before a decision can be made.

**REQETH Project Constraints:**

* The application web deployment is hosted on the Microsoft Azure platform.
* The application use HTML5 and CSS on the client side for the organization and styling of content .
* The application use PHP to server side scripts for the generation of dynamic content.
* Application records are stored in a mySQL database
* Approval request records will be stored in a database. Records can be retrieved for viewing or modification (in which case the record in the database is updated).

Ranking: Must -, Should -, Could -, Will not be implemented

| **Functional Requirements:**  **System Access: “Login” screen** | | | |
| --- | --- | --- | --- |
| **ID** | **Role** | **Function Perfomed Ranking** | |
| L10 | ALL | When the user enter the URL for the web application in a web browser the application login screen is displayed. | M |
| L20 | ALL | When the user enter and submit a valid login and password the “Experiments List” screen is displayed. | M |
| L30 | ALL | When the user submit an invalid user name or password the message “Login failed due to incorret credentials” is displayed. | M |
| L40 | ALL | When the “Request login reminder” link is clicked the “Login Reminder” screen opens. | S |
| L50 | ALL | When the “Request Password Reset” link is clicked the “Password Reset” screen opens. | S |
| L60 | ALL | When the “Help” link is clicked the “Help” screen opens. | C |

| **System Access: “Login Reminder” screen** | | | |
| --- | --- | --- | --- |
| RL10 | ALL | When the user submit an email address that is linked to a valid account, the system sends an email containing the account login to the entered address. | S |
| RL20 | ALL | When the user submit an email address that is linked to a valid account the message “Details about your account login has been emailed” is displayed. | S |
| RL30 | ALL | When the user enter an email address that is not linked to a valid account the message “The email entered is not associated to a valid account” is displayed | S |

| **System Access: “Request Password Reset” screen** | | | |
| --- | --- | --- | --- |
| RR10 | ALL | When the user submit an email address that is linked to a valid account the system emails a link to the the user for an account specific “Reset Password” screen. | S |
| RR20 | ALL | When the user submit an email address that is linked to a valid account a message “The system has emailed you a link to reset your password” is displayed. | S |
| RR30 | ALL | When the user submit an email address that is not linked to a valid account the message “The email entered is not linked to a valid account” is displayed | S |

| **System Access: “Password Reset” screen** | | | |
| --- | --- | --- | --- |
| PR10 | ALL | When the user click on the link in the “reset password” system generated email (RR10) the “Password Reset” screen is displayed. | S |
| PR20 | ALL | When the user enter and submit identical strings in the “new password” and “new password confirmaton” fields, the system resets the users password to the match the values submitted. | S |
| PR30 | ALL | A link in the “Password Reset” allow the user to open the “Login” screen | S |

| **Functional Requirements:**  **Experiment Record(s): “Experiment Detail” Screen** | | | |
| --- | --- | --- | --- |
| ED10 | Student | The user shall be able to create a new experiment record. | M |
| ED20 | Student | The user shall be able to provide information of the experiment in a free text field. | M |
| ED30 | Student | The user shall be able to provide information about ethics that needs to be considered in a free text field. | M |
| ED40 | Student | The user shall be able to upload files to the system and attached them to the specific record which the user is currently working on. | M |
| ED50 | Student | The user shall be able to save the record. | M |
| ED60 | Student | The user shall be able to answer a set of predefined “Yes” “No” questions by selecting the appropriate tick box | C |
| ED80 | Student | If the user indicated “No” as an answer to any of the predeined questions, the user shall be required to fill in additional information in a free text field associated to the appropriate question, explaining the reason for selecting “No” | C |

**Login Request Screeen:**

**Experiment Screen:**

**http://www.yegor256.com/2015/11/10/ten-mistakes-in-specs.html**

<https://belitsoft.com/software-requirements-specification-document-example-international-standard>

<http://reqtest.com/requirements-blog/functional-vs-non-functional-requirements/>

<http://users.csc.calpoly.edu/~csturner/courses/308w09/FunctionalRequirements.pdf>

**Functional Requirements list:**

**Home page / Start Page**

**Login and password**

**Login Request Page Functions**

**Non Functional Requirements list:**

* **Web Application Description** – A short, no more than 150 word, description of your web application.
* **Constraints** – Short section detailing how your project meets the constraints that have been attached to it (see coursework overview sheet for these)
* **Functional and Non-Functional Requirements List** - Clarification of system requirements, to produce a list of functional and non-functional requirements.
* Full and accurate list of requirements has been given, which fully reflect the sites desired functionality.
* Requirements are sorted into functional and non-functional, and have also employed a further method of sorting (e.g. MoSCoW) Requirements are all testable
* Application is excellently described and shows functionality above the level that is expected. Web application fully meets project constraints
* Your completed web application must be hosted on the Microsoft Azure platform
* Your web application must contain both front end (client side) and back end (server side) code
* The created web application must contain the following features
  + A login system
  + Some type of file upload system
  + A system for users to input data that is stored and then recalled from a database and

Every experiment that takes place at Robert Gordon University must first receive ethical approval before commencing. This is currently achieved with a form that is filled in and then stored online. A project exists where this process can be turned into a web application so that the ethical approval of an experiment can take place in a more efficient manner. In this system, there are the following types of users:

* Administrators
* Experiment Approval Officers (EAO)
* Students

Accompanying this, the following basic functionality should be implemented

* Students should be able to sign up to the system, create an experiment, and then fill in the ethics attached to this. They should also be able to edit the ethics of a project.
  + Students should be able to upload additional files that supplement their ethical approval form (e.g. consent forms)
* Experiment Approval Officers should be able to view experiments that have been assigned to them, give comments on an experiment, and finally decide whether to grant ethical approval for a project.
* Administrators should be able to assign experiments to EAO’s.
* All experiments should be assigned to 2 different EAO’s for feedback.

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