

System Requirements Specification Document

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1 Introduction

1.1 Purpose

The purpose of this document is to provide a specification for the on-line Post Graduate Application(PGA) Approval System for the School of Electrical and Information Engineering. This document will serve as a base for consideration of further design and development of the System. Additionally this documentation will provide initial elicited business rules.

The purpose of this project is to provide a centralized and paper free platform to replace the current paper-based approval process.

1.2 Intended audience and reading suggestions

The software requirements document at this stage is intended for:

- Developers who can review system requirements and consideration for further design and development of the system.
- Clients who can verify the scope and requirements of the project.

2 Overall Description

2.1 Product Perspective

This system relies on Microsoft Azure web services as well as the Google Docs API.

2.2 Product Features

The basic version of the system should provide:

- Applicant document repository and management.
- Interface for the upload of Application related documentation.
- Interface for the PGO to select a Research Group or an identified Supervisor
- Automatic Email Notification for Users.
- Bespoke views for each user class.
- Interface for the verification of Application documentation.
- Application Summary.
- Minimum application requirements display.
- Access permission management for each system view.

2.3 User classes

- PGO - The Post Graduate Officer who deals with the administration of each Application
- Supervisor - The Research Group or Supervisor who evaluates whether they are willing to supervise the Applicant based on their Application.
- PGC - Post Graduate Coordinator who verifies that all university/faculty/school rules have been followed and acceptance criteria met. With consideration from the Supervisor and aforementioned rules and acceptance criteria signs off the final decision to accept or reject the application.

2.4 Operating Environment

This proposed system is platform independent as it is an Azure web application accessed via browser.

The web application is available at: <http://pgasystem.azurewebsites.net>

2.4.1 Software Requirements

- The system should be an online web application.
- The system should be platform independent.

2.4.2 Hardware Requirements

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2.5 System Requirements

- The System should allow a PGO to capture PG Application supporting documents.
- The System should allow a PGO to select a Supervisor or Research Group to forward the Application to.
- The System should allow for email notification to Applications for a Supervisor or Research Group of pending Applications to review.
- The System should have custom views pertaining to each Actor of the System.
- The System should enforce validation and verification on all data within the system.

3 System Features

3.1 Document repository and management

3.1.1 Description:

Upload Application document and supporting documents to a centralized repository

3.1.2 Requirements:

- The System should allow a PGO to upload PG Application and supporting documents.
- The System should allow users to view application documents.

3.1.3 Benefits:

- Ease of access.
- Enforces data consistency.
- Alleviates the need for physical storage of documents which uses a large amount of physical space.
- Redundant storage of files across 2 geographic locations to ensure that no file loss occurs.
- Secure.
- Cost Effective.

3.2 Automatic Email Notification for users.

3.2.1 Description:

User is notified via email of pending tasks to complete for the PGA approval system.

3.2.2 Requirements:

- The system should allow for email notification to a Supervisor or the PGC of an application to review.
- The system should allow for email notification to the PGC when an accept or reject decision on an application has been made by a supervisor.
- The system should allow for email notification to a PGO when a final decision has been made by the PGC.

3.2.3 Benefits:

- Faster response by users and convenient access to the Application.

3.3 Bespoke views for each user class and Access permission management for each system view

3.3.1 Description:

Allow different users to access the system

3.3.2 Requirements:

- The System should have custom views pertaining to each Actor of the System.
- The System should enforce validation and verification on all data within the system.

3.3.3 Benefits:

- Enables separation of responsibilities of actors within the system.

3.4 Application minimum requirements description.

3.4.1 Description:

The minimum requirements for application approval shall be displayed as a reminder for the users when considering an application.

3.4.2 Requirements:

- The system shall display minimum requirements for each individual application type at multiple points in the application review process.

3.4.3 Benefits:

- Aids in decision making on an application.

3.5 Application Summary

3.5.1 Description:

An application summary will be generated and displayed for ease of use for different users in the performing of their respective tasks.

3.5.2 Requirements:

- The system shall display important application information when viewing an application.

3.5.3 Benefits:

- Enables faster decision making as Application details are summarized.