

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 nn-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 is self-contained and independent of any other systems or products available on the market.

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

Intentionally left blank

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.

3.2 Interface for the PGO to select a Research Group or an identified Supervisor

3.2.1 Description:

PGO selects a correct Research Group or Supervisor for a PG application

3.2.2 Requirements:

- The System should allow a PGO to select a Supervisor or research group to forward the Application to.

3.3 Document verification system

3.3.1 Description:

PGO verifies and labels application documents.

3.3.2 Requirements:

- The system should allow a PGO label a document according to type.
- The system should facilitate a means to verify that the necessary documents have been uploaded.

3.4 Automatic Email Notification for users.

3.4.1 Description:

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

3.4.2 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.

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

3.5.1 Description:

Allow different users to access the system

3.5.2 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.

3.6 Application minimum requirements description.

3.6.1 Description:

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

3.6.2 Requirements:

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

3.7 Application Summary

3.7.1 Description:

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

3.7.2 Requirements:

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