Post-Doctoral Application Management System

Vision and scope document

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Version 0.9
Iteration 1

Prepared for Ms. Cathy Sandis (UP Research Office)
by SoftServe Group

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Change log			
Date	Version	Description	Person
10/02/2014	v 0.0	Original SRS document created	Mathys Ellis
02/03/2014	v 0.1	Added to glossary	Mathys Ellis
05/03/2014	v 0.3	Added Introduction, Vision, Background	Carlo Machaba
06/03/2014	v 0.4	Added open issues. Modified some sections	Alfred Ngako
06/03/2014	v 0.5	Added methodology, scope and limitations	Mathys Ellis
08/03/2014	v 0.6	Added some wrapping to the change log which is now a table	Alfred Ngako
16/03/2014	v 0.8	Did some restructuring and document formatting	Mathys Ellis
17/03/2014	v 0.8	Also added to the glossary	Mathys Ellis
12/05/2014	v 0.9	Created new vision and scope document. Transferred necessary content from old SRS document. Performed editing and restructuring of document. Added exclusions	Mathys Ellis

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1 Document description:

1.1 Document purpose:

This vision and scope document serves the purpose of providing a detailed overview of the project's scope and its vision as well the goals that SoftServe's Post-Doctoral application management system wishes to satisfy. Further it defines the abstract interaction of stakeholders with the proposed software system. Thus this document serves as a contract between SoftServe and the client, Mrs Cathy Sandis of the DRIS of the University of Pretoria in terms of project scope.

1.2 Documentation methodology

The documentation and software development methodology used by the project adhere to the guidelines set out by the agile method. Thus this document has undergone and will undergo various iterations that may extend or reduce the contents of the document.
This document was created using the requirement elicitation techniques and requirement definitions as specified by Klaus Pohl's book Requirements Engineering: Fundamentals, Principles, and Techniques [Dr.Phol, K., 2010]. The requirements, vision and scope were elicited from the following sources:

- Numerous interviews with the client.
- On-line research into UP Post doctoral applications.
- Correspondence with the UP IT department.
- Collecting and analysing various documents such as:
  - The initial project request document
  - Application forms
  - Renewal forms
  - CV templates
  - Approval and recommendation forms

1.3 Document conventions:

- Documentation formulation tool: LaTeX
- ERD Crow-Foot notation
- UML 2.0

1.4 References:

- Dr.Phol, K., 2010, *Requirements Engineering: Fundamentals, Principles, and Techniques*, Springer, Heidelberg.

2 User acceptance tests

This user acceptance document, as specified in the "V" model for testing, is a quality assurance activity through by which we will be enabled to ensure that the new system does actually meet the essential user requirements. It acts as a means to gain quality assurance as it allows to detect deviations between the implementation of the system and the specified requirements. Since test cases are essentially derived from the quality and functional requirements provided by the requirement engineering process. Quality assurance, in turn, requests requirements engineering to resolve requirements defects detected during quality assurance activities and if necessary, to clarify requirements to enable the specification of adequate test artefacts (Pohl 2010).

This section test items and identifiers with regards to the systems behaviour. All the steps entailed below are added to the audit log.

2.1 User Accounts

2.1.1 Creating prospective fellow user account

Step	Action	Expected System response
1	The user enters the required information such as names and email address to the system.	The system will check that all fields were filled as expected and that no necessary fields were skipped. If all fields are valid the user is allowed to continue
2	Once all the fields are checked as valid by the system the user can now submit their account.	The system will now create the users account in the system database.

2.1.2 Creating stakeholder user account

Step	Action	Expected System response
1	The administrator enters the required information such as names, security level required by the user account and email address to the system.	The system will check that all fields were filled as expected and that no necessary fields were skipped. If all fields are valid the user is allowed to continue
2	Once all the fields are checked as valid by the system the user can now submit their account.	The system will now create the users account in the system database.

Preconditions

The administrator is logged on to the system.

Postconditions

The user account is now created in the system identified as a prospective fellow.

2.1.3 Modifying user account

Step	Action	Expected System response
1	The user alters all the fields they want to change such as email and names.	The system will check that all fields were filled as expected and that no necessary fields were skipped. If all fields are valid the user is allowed to continue.
2	Once all the fields are checked as valid by the system the user can now submit their account.	The system will now create the users account in the system database.

Preconditions

The administrator is logged on to the system.

Postconditions

The user account is now created in the system identified as a prospective fellow.

2.2 New Application

2.2.1 Prospective Fellow Creates new application

Step	Action	Expected System response
1	The user enters their relevant details in CV form.	The system will check that all fields were filled as expected and that no necessary fields were skipped. If all fields are valid the user is allowed to continue
1	The user specifies their intended supervisor.	The system will check that all fields were filled as expected and that no necessary fields were skipped. If all fields are valid the user is allowed to continue
2	The user enters the details/documents of their referees.	The system will store the documents or check the validity of the referes details binding them to the applicants application. If all fields are valid the user is allowed to continue
3	The user enters their previous academic experience(s), attaching the supporting documents.	The system will store the documents binding them to the applicants application. If all fields are valid the user is allowed to continue
4	The user enters their previous work experience(s), attaching the supporting documents.	The system will store the documents binding them to the applicants application. If all fields are valid the user is allowed to continue
5	Once the user has completed all the above steps they will be allowed to submit the application.	The system will now process the application to the specified supervisor and let the user know that the application is under way.

Preconditions

The user is on the website through a supported web client and logged on to the system.

Postconditions

The user is on the website through a supported web client and logged on to the system.

2.2.2 Referees submit Motivation

Step	Action	Expected System response
1	The user enters their relevant details in CV form.	The system will check that all fields were filled as expected and that no necessary fields were skipped. If all fields are valid the user is allowed to continue
1	The user specifies their intended supervisor.	The system will check that all fields were filled as expected and that no necessary fields were skipped. If all fields are valid the user is allowed to continue
2	The user enters the details/documents of their referees.	The system will store the documents or check the validity of the referes details binding them to the applicants application. If all fields are valid the user is allowed to continue
3	The user enters their previous academic experience(s), attaching the supporting documents.	The system will store the documents binding them to the applicants application. If all fields are valid the user is allowed to continue
4	The user enters their previous work experience(s), attaching the supporting documents.	The system will store the documents binding them to the applicants application. If all fields are valid the user is allowed to continue
5	Once the user has completed all the above steps they will be allowed to submit the application.	The system will now process the application to the specified supervisor and let the user know that the application is under way.

Preconditions

The user is on the website through a supported web client and logged on to the system.

Postconditions

The user is on the website through a supported web client and logged on to the system.

2.2.3 Grant holder validation of application

Step	Action	Expected System response
1	Grant holder verifies and finalizes the application.	The systems accepts the verifications
2	Once all the reports and referrals have been submitted the application can now be sent through	The system now sets the application to be processed. A notification is sent to the DRIS.

Preconditions

The grant holder is logged on to the system. The application has instantiated by the prospective fellow.

Postconditions

The application is now available to the stakeholders.

2.2.4 Application approval by stakeholder

Step	Action	Expected System response
1	Stakeholder verifies and finalizes the application or leaves suggestion for the application.	The systems accepts the verifications.
2	Once all the reports and referrals have been submitted the application can now be sent through	The system now sets the application to be processed. A notification is sent to the DRIS.

Preconditions

The stakeholder is logged on to the system. The application has been approved and finalized by the grant holder.

Postconditions

The application is now available to the DRIS consideration.

3 Glossary:

- **API** - Application Programming Interface
- **Application** -Both renewal applications or new fellowship applications are seen as applications by this project.
- **CV** - Curriculum Vita
- **HTML** - Hyper Text Mark-up Language
- **Java EE** - Java Enterprise Edition
- **NRF** - National Research Foundation
- **PhD** - A doctoral degree in a particular field of study.
- **PDF** - Portable Document Format file
- **Spreadsheet** - A special type of digital document that is used to represent data in rows and columns
- **Use case** - A visual depiction of a service or group of services.
- **UP** - University of Pretoria