Cover page!

Project and/or team details, etc maybe? something?

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# 1. Introduction

The Computer Science department office makes Faculty Information Cards each semester, which are then put up outside each faculty member’s office, as well as the department office. These cards display course information, as well as office location, office hours, and contact information for the faculty member. This card is to inform students and others of availability for faculty members. Currently, the information is collected from the faculty members and then manually put into the system, by the office clerk, which then formats and prints them out individually.

# 1.1 Purpose

This SRS describes the functional and nonfunctional requirements for software release 1.0 and expected subsequent releases of Hornet CardGen. This document is intended to be used by the members of the project team who will implement and verify the correct functioning of the system. Unless otherwise noted, all requirements specified here are committed for release 1.0.

## 1.2 Document conventions

No special typographical conventions are used in this SRS.

## 1.3 Project scope

Hornet CardGen will permit Office Administrators and Office Clerks to create and print faculty information cards (FICs). A detailed description is available in the Hornet CardGen Vision and Scope Document [1], along with the features that are scheduled for full or partial implementation in this release.

## 1.4 References

Fletter, Dale. (2017, Jan 23 - May 12). *Software Specifications and the Business Analyst: An industry’s perspective*. Lecture at Brighton Hall, California State University, Sacramento, CA.

Wiegers, Karl and Beatty, Joy. (2014, April). *Software Requirements* (3rd ed.). Redmond, WA: Microsoft Press.

# 2. Overall description

# 2.1 Product perspective

Hornet CardGen is a new software system that replaces the current manual processes for creating FICs in the Computer Science Department of California State University, Sacramento. The system is expected to evolve over several releases, ultimately providing multiple department’s access to our FIC printing services.

2.2 User classes and characteristics

|  |  |
| --- | --- |
| **User Class** | **Description** |
| Office Administrator | An Office Administrator is an office employee who organizes course and faculty information of their assigned department. The Office Administrator is expected to create Faculty Information Cards (FICs) every semester, or when changes in information occurs. |
| Office Clerk | An Office Clerk is an office employee who requests and inputs faculty office hours for their assigned Department. The Office Clerk is expected to provide any new or changed faculty member’s office hours prior to the start of each semester. |

## 2.3 Operating environment

1. Hornet CardGen shall correctly operate using any version of the Google Chrome web browser.
2. Hornet CardGen shall permit user access from authenticated intranet and internet connection.

## 2.4 Design and implementation constraints

1. The system shall use a standard MYSQL database engine.
2. All HTML code shall conform to the HTML 5.0 standard.

## 2.5 Assumptions and dependencies

### Assumptions

1. This first iteration of the system will primarily be used by the office administrator and office clerk in the Computer Science department. See Stakeholders section for more details.
2. In a future iteration, where more departments are considered to use the product, more analysis will have to be done to decide if any changes will be needed to accommodate them. For now, it is best to assume that there will be some amount of change needed. At bare minimum, time will need to be spent to train more people to use the product.
3. Appropriate resources will be provided for the system to be a success. These resources may include hardware and software that is required for everything from development to running and serving the application.
4. The external Registrar’s system will be assumed to be up and running, and the exported file given to Office Administrators does not change after Hornet CardGen undergoes development. This assumption should be followed up on and verified, should this project undergo actual design and development.
5. The system will require some level of maintenance for the Database Management System and possibly maintenance for a machine that will serve the application (pending application development and implementation).

### Dependencies

1. This system requires the external Registrar's system to be operational and accessible to Office Administrators for manual data export.
2. The format of the data exported from the Registrar system must be unchanged from the development phase of Hornet CardGen. If the format changes at all on the Registrar’s end, it is likely that the data import process in Hornet CardGen will be broken.
3. This system requires a database to store appropriate information and remove extraneous information imported from the registrar's import file.
4. This system requires an active printer to be accessible for the final task of printing the Faculty Information Cards.
5. This system requires an Office Administrator or Office Clerk to print the Faculty Information Cards and manage the information.
6. The system will export to a file that can be printed from most PCs. That file will be formatted to print on Avery 5689 Cardstock.

# 3. System features

## 3.1 Store Faculty Information

Upon creating a new semester, importing to an existing semester or editing an existing semester.

### 3.1.1 Description

An Office Administrator who has been authenticated can store faculty information through importing a registrar’s file during the creation of a new semester or importing a registrar’s file to an existing semester, or modifying an existing semester’s data fields.

### 3.1.2 Functional requirements

Text

## 3.2 Print Faculty Information Cards

Print by semester

### 3.2.1 Description

An Office Administrator who has been authenticated can print FICs by semester. The FICs can be printed as a whole department or by selection.

### 3.2.2 Functional requirements

Text

## 3.3 Create, View, and Modify Faculty Information Cards

Done by semester

### 3.3.1 Description

An Office Administrator who has been authenticated can create, view, and modify FIC data fields. An Office Clerk who has been authenticated can view FIC data fields and modify the office hour’s data field.

### 3.3.2 Functional Requirements

## 3.4 Account Management

### 3.4.1 Description

An Office Administrator who has been authenticated can create and assign accounts to departments, promote and view accounts, and reset passwords to accounts. An Office Administrator can only promote accounts within their own department.

### 3.4.2 Functional Requirements

## 3.5 Create Departments

### 3.5.1 Description

An Office Administrator who has been authenticated can create a department. Department creation requires assigning or creating an account to be set as the Office Administrator for the created department.

### 3.5.2 Functional Requirements

# 4. Data requirements

## 4.1 Logical data model

Text

## 4.2 Data dictionary

Text

## 4.3 Reports

Text

## 4.4 Data acquisition, integrity, retention, and disposal

Text

# 5. External interface requirements

## 5.1 User interfaces

Text

## 5.2 Software interfaces

text

## 5.3 Hardware interfaces

Hornet CardGen shall communicate with the office printer to allow for printing FICs.

## 5.4 Communication interfaces

When requested by an Office Administrator, Hornet CardGen shall send an email to the Office Administrator or Office Clerk allowing them to change their password. (In case the password is lost or forgotten the Office Administrator has the power to send in a request for a new password. The Hornet CardGen in returns sends an email to the Office Administrator or Office Clerk (or with specific steps to) which allow them to change their password.)

# 6. Quality attributes

## 6.1 Usability

1. Hornet CardGen shall allow an Office Administrator or Office Clerk to print all of their department’s FICs in a single interaction.
2. Hornet CardGen shall allow an Office Administrator or Office Clerk to print individually selected FICs in a single interaction.
3. Hornet CardGen shall allow an Office Administrator to change the faculty information.

## 6.2 Performance

1. The system shall display changes made to faculty information within 5 seconds after the user submits the change request.

## 6.3 Security

1. Users shall be required to log on to Hornet CardGen to perform all operations.
2. Only Office Administrators shall be permitted to change the faculty information of their own department.
3. The Office Clerk shall only be permitted to change faculty office hours of their own department.
4. Office Administrators and Office Clerks shall be limited to viewing information of their own department.

## 6.4 Safety

There are no safety requirements.

## 6.5 Availability

1. Hornet CardGen shall be available during standard department office hours between 9:00 A.M. and 5:00 P.M. local time, excluding scheduled maintenance windows.

## 6.6 Robustness

Text

## 6.x [more]

Text

# 7. Internationalization and localization requirements

Text

# 8. Other requirements

Text

# Appendix A: Glossary

Text

|  |  |
| --- | --- |
| word/acronym | definition/meaning |
| Avery 5689 Cardstock | A type of printable card templates |
| FIC(s) | Faculty Information Cards |
| Hornet CardGen | Name of the software |
| SRS | Software Requirements Specifications |

# Appendix B: Analysis models

Text