# 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.