**CMPS 453 ODS Project Requirements**

**The Jankson 5**

1. **ABSTRACT**

This document covers the requirements and projected undertakings of our group over the 2014 Fall semester as we complete our project for CMPS 453 with ODS as our client. These plans are illustrated both graphically and textually to best show the steps of execution we will take towards completing our project.

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1. **INTRODUCTION**

We, as a group, have undergone our initial meeting with our customer. Unless otherwise directed by our client, the group plans to create an online registration system for scheduling test-taking appointments with ODS. Implementation of this project will help ODS to organize and manage testing appointments and will also help facilitate better communication between ODS and involved students and professors.

Specifically, the project will allow a student to log in via a webpage designed to allow test scheduling given a username and password. When a test is scheduled, an email will be sent to the corresponding class’ professor so that the professor can provide the physical test to ODS in time for the scheduled test. ODS workers will also have access to the system so that scheduling can be manually accessed and manipulated if necessary.

1. **USE CASE MODEL FOR FUNCTIONAL REQUIREMENTS**

|  |  |
| --- | --- |
| Use Case 1 | Description |
| Name | View Scheduled Tests |
| Participating Actors | Student, System |
| Entry Condition(s) | The student must be logged into their ODS account. |
| Normal Flow of Events | The webpage requests the student’s schedule from the database and displays it. |
| Exit Condition(s) | The user navigates away from the webpage. |
| Exceptions | Connection to the webpage is lost. |
| Special Requirements | N/A |

|  |  |
| --- | --- |
| Use Case 2 | Description |
| Name | Schedule Test |
| Participating Actors | Student, System |
| Entry Condition(s) | The student enters a valid time and date for an upcoming test. |
| Normal Flow of Events | The student enters information about the test and, once the input has been confirmed, will have their test scheduled. |
| Exit Condition(s) | The student navigates away from the page. The student completes the scheduling process. |
| Exceptions | Connection to the webpage is lost. The student entered an invalid time or date for which to schedule the test. |
| Special Requirements | N/A |

|  |  |
| --- | --- |
| Use Case 3 | Description |
| Name | Test Scheduled Notification |
| Participating Actors | Student, ODS, Teacher, System |
| Entry Condition(s) | A student successfully scheduled a test from the webpage. |
| Normal Flow of Events | After a test has been scheduled, a notification is sent out to the scheduling student, ODS, and the teacher whom is issuing the test. |
| Exit Condition(s) | N/A |
| Exceptions | N/A |
| Special Requirements | The content of the notification will be different for each recipient. The student will simply receive a confirmation that their test has been scheduled. The teacher will receive a request for the test and a completed Testing Instructions form which will be attached for them to fill out. |

|  |  |
| --- | --- |
| Use Case 4 | Description |
| Name | Create Student Account |
| Participating Actors | Student, ODS, System |
| Entry Condition(s) | The student applies with ODS to begin receiving extended time while taking tests. |
| Normal Flow of Events | Once the application is reviewed and accepted, an account will be created for them so that they may view and schedule tests online. |
| Exit Condition(s) | N/A |
| Exceptions | The student’s application did not meet the requirements set in place by ODS. The student already exists in the ODS database. |
| Special Requirements | N/A |

|  |  |
| --- | --- |
| Use Case 5 | Description |
| Name | Delete Student Account |
| Participating Actors | Student, ODS, System |
| Entry Condition(s) | The student has graduated, withdrew from the university, or no longer meets all ODS requirements. |
| Normal Flow of Events | Once the student’s ODS status is no longer valid, their account and all associated information will be purged from the system. |
| Exit Condition(s) | N/A |
| Exceptions | The student does not exist in the ODS database. |
| Special Requirements | N/A |

1. **USE CASE MODEL RATIONALE**
2. **NON-FUNCTIONAL REQUIREMENTS**

The project must accomplish both performance and organizational goals to be considered a successful implementation. These goals are as follows. The project must:

* Distinguish between a normal user and an administrative user / ODS worker at login by use of a secure user database entry.
* Utilize ruby on rails to present, check, and edit data inside of a MySQL database by issuing commands to a hosted MySQL server.
* Securely store user data in MySQL database that cannot be accessed by an unauthorized source
* Respond quickly and efficiently to any given user on any popular platform during worst case usage (i.e. during finals week, or if accessed with a poor internet connection)
* Present the data in an organized online setting that is easy to read and understand for both students and ODS workers

1. **CONFIGURATION MANAGEMENT PLAN**
2. **REFERENCES**