Software Requirements Specification

for

NSU Online Classroom

Version 1.0 approved

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Table of Contents

Table of Contents ii

Revision History ii

1. Introduction 1

1.1 Purpose 1

1.2 Document Conventions 1

1.3 Intended Audience and Reading Suggestions 1

1.4 Product Scope 1

1.5 References 1

2. Overall Description 2

2.1 Product Perspective 2

2.2 Product Functions 2

2.3 User Classes and Characteristics 2

2.4 Operating Environment 2

2.5 Design and Implementation Constraints 2

2.6 User Documentation 2

2.7 Assumptions and Dependencies 3

3. External Interface Requirements 3

3.1 User Interfaces 3

3.2 Hardware Interfaces 3

3.3 Software Interfaces 3

3.4 Communications Interfaces 3

4. System Features 4

4.1 System Feature 1 4

4.2 System Feature 2 (and so on) 4

5. Other Nonfunctional Requirements 4

5.1 Performance Requirements 4

5.2 Safety Requirements 5

5.3 Security Requirements 5

5.4 Software Quality Attributes 5

5.5 Business Rules 5

6. Other Requirements 5

Appendix A: Glossary 5

Appendix B: Analysis Models 5

Appendix C: To Be Determined List 6

# Introduction

## Purpose

In our University all the Respected Faculty members and students have a common platform named **“RDS”.** We want to integrate a new feature to the existing RDS system which will reduce the soreness of sharing Google Classroom code, Facebook Group link etc. and help to interact with each other smoothly.

We want to create a system which will help teachers and instructors of a course to interact with the students in an efficient way. In a course, a faculty shares various reading materials, slides, set exam dates, take questions from the students also students request for various things like asking questions, staring a discussion on a topic etc. We want to bring everything into a single system which can make everything easier.

## Document Conventions

The entire document is written using Arial and Times fonts. The titles are written in Times with size 14 and the body parts are written in Arial with size 11. Special mentions of a content are written in bold letters for emphasis.

## Intended Audience and Reading Suggestions

Intended audience of this document are everyone associated with this system including users; students and faculties, developers, testers, IT managers. The beginning sections of the document describe the overview and summary of the project and gradually gets into more technical discussions in later sections.

Introductory and project overview related sections can be easily understood by everyone. Following technical parts can also be understood by common readers but readers with some technical knowledge will have better understanding.

## Product Scope

The system will provide supports and features for both faculties and students of an institution. Though our plan is to integrate this system into our RDS system still this can be implemented as a standalone system for any educational institution. Any institution or organization that operates instructor-student based operations can get benefited from this system.

## References

<List any other documents or Web addresses to which this SRS refers. These may include user interface style guides, contracts, standards, system requirements specifications, use case documents, or a vision and scope document. Provide enough information so that the reader could access a copy of each reference, including title, author, version number, date, and source or location.>

# External Interface Requirements

## User Interfaces

**Faculty portal**

Admin can upload all type of study materials, exam mark sheet, give announcements (about exam, class cancel, office hours, make-up class etc.). Faculty can delete any students post if he/she want

**Student Portal**

Students can see all the materials that faculty member post & also download all the materials.

He/she can any give post about study purpose and ask any question and can share for only faculty or students and faculty both. Faculty and students also can give comments on the post.

## Hardware Interfaces

The hardware environment in this system will be laptop and PC.

## Software Interfaces

1. Website: HTML, CSS
2. API: PHP 7.3
3. Database: MySQL
4. Server

## Communications Interfaces

The system will have to part of the varsity RDS. Access all the faculty’s and student’s database.

# System Features

## Faculty Portal

#### 3.1.1 Grading System

There will be a feature for Faculty for Submitting Grade. Here Faculty will upload marks according to Course Outcomes 1,2,3 and so on for individual exams. He/She will have to set percentage of each CO. All marks of each exam will be generated from the uploading marks section and will calculate the final grade automatically. Also the average marks for each exam, student who obtain highest marks, lowest marks.

#### 3.1.2 Uploading Study Materials

Faculty member can upload study materials such as slides, books, course outlines etc. Students can download the resources from the download section in the classroom window.

#### 3.1.3 Give Announcements

Faculty member can give announcements of exams, syllabus, class cancellation, office hours etc. here and also be able to set priority. Student will get reminder according to the announcements.

## Student Portal

#### 3.2.1 Download Section

Student will see all the materials that the faculty member upload. He/she can download the materials from this section

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#### 3.2.2 Giving post

Student can give any post regarding study purpose and ask any question and share this with other people in the classroom. Student can also upload files here to share with friends.other students as well as faculty member also can give comments on the post.

# Other Nonfunctional Requirements

## Performance Requirements

All data are important. But from them some are most important such as Student Infromation, Grading Resources etc. So this kind of thing will be handled in University Database for maintaining Confidentiality. Other data like study material must be handled in other database as the accessing of main database all the time is risky.

## Safety Requirements

Student Information is very important. Grades and marks history must be kept in 2nd backup Database as it is very important for the course. Before Submitting Grade Faculty must get a confirmation message.

## Security Requirements

Malicious user can upload virus infected file for hacking purpose. Malicious user can also hack Faculty account and give fake post regarding class, exam cancellation and edit Grade and marks history. So the Faculty portal must be highly secured.