CS251 – Software Engineering I

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CS251: Phase 1 – Team Name
Project: <Project Name>

Software Requirements Specifications

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Software Requirements Specifications

1. Team

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2. Introduction

2.1 Document Purpose and Audience

- This Document represents a software requirement specification for the advanced learning management website. It's addressed to educational institutes, faculties, centers that offers online courses with online assessment.

2.2 Software Purpose

- The main purpose of the system is to combine a learning management system website with the additional features of the automatic programming judgment site.
- As the system's features will be extended to include not only the educational process -which allows the teachers (Doctors and TAs) to create and attach documents to be available for students, and the students in turn submit the required tasks whether in a textual or programming files.
- It will also provide auto-correction for the programming files In terms of the test cases each student has passed.

Software Requirements Specifications

3. Software Scope

The system describes a website that manage educational courses, we will refer to it with the name of

 "Aca-Coder".

This system will be designed to help professors to manage courses they teach by providing tools to make the marking process and sharing materials easier to TAs and Students.
As for the technical aspects of our System:
- it allows any professor create course page and send invitations to TAs, Students register in course by the course code taken from the course professor.
- Professor and TAs can upload resources to their students. In additional to compiling feature for programming assignments. Student code will delivered in C++ or Java programming language and the System will compile it based on input and output files doctor attached it with the assignment
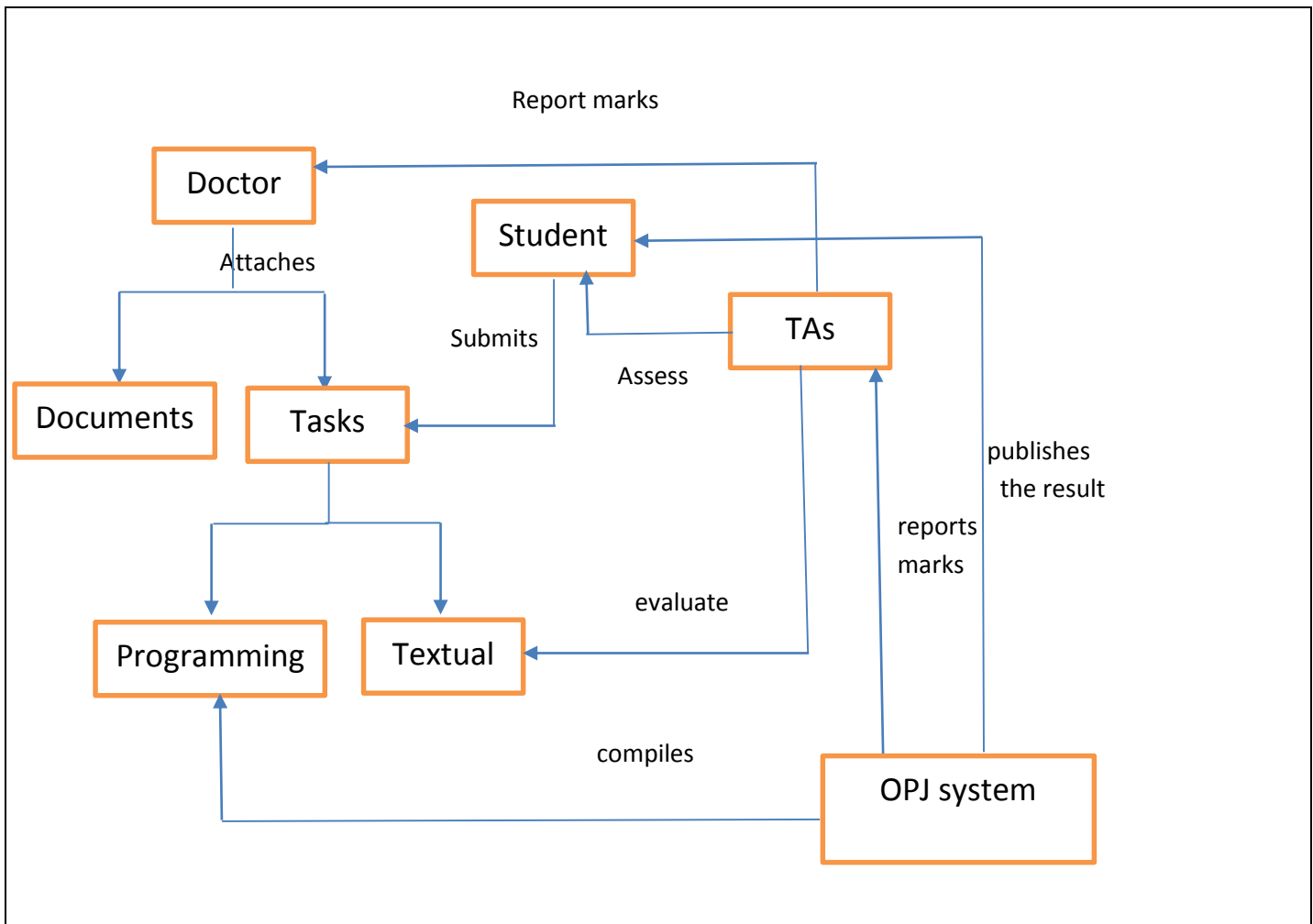
Software Requirements Specifications

4. Definitions, acronyms, and abbreviations

Users of the system:

Doctor	Who creates the course and creates assignments for students
TA	Who evaluates Students and give the grade of textual assignments
Student	Who access system to register courses

- OPJ: The part that's responsible for handling the online programming judgment for any C++/ java programming file provided.
- Process: the operations that should be implemented within the system design, and clarify the connection between all the system's users →(Figure: 1).

Software Requirements Specifications

5. Requirements

5.1 Functional Requirements

1. **Signing up:** the users must sign up for the first time in the system using his email and password to be able to log in again and after signing up he will have a profile with all courses that he registered on it if he was a student or created if he was a doctor or invited to if he was a TA.

2. **Creating courses:** the system enables the doctor user to create a course and set a password and invite TAs to it so specific users can join it (only those who know the course password).

3. **Messaging:** the system enables communication between users using chats as anyone on the system can send messages to one or many other users.

4. **Uploading files:** the system enables doctors and TAs to upload any document or assignment and also enables students to upload or submit their assignments answers

5. **Downloading files:** the system enables doctors and TAs to download the textual assignment answers uploaded by the student to be marked and enables the student to download the assignments and the attached documents.

6. **Automatic marking:** the system can take an uploaded programming file from the student and an input/output format file from the doctor and get the student grade by testing and comparing output of the programming code with the input/output format file.

7. **Setting grades:** the system allows TAs to set grades for the textual assignments to all students and the system itself set the grades of any programming file assignment.