Musaholic

Software Requirement Specification

1. Introduction

   1.1 Aim of the document

   This document aims to present the "Musaholic" project by describing the main functionality of the system, providing its HW and SW requirements, and comparing it with other similar systems on the market. Below are user stories, functional requirements, and use cases providing overview diagrams and internal steps of a use case.

   1.2 Overview of the defined system

   The system is oriented to the booking of musical instrument lessons between a teacher and a student.

   This system is designed for a private facility.

   1.3 HW e SW requirements: minimum

   OS: Windows 7/Mac OS X 10.10/Linux/Chrome OS

   RAM: 512 MB

   CPU: ARM or x86

   Hard Disk Storage: 50 MB

1.4 Related systems, Pros and Cons.

This system falls into the category of portals dedicated to the booking of lessons in particular of musical instruments. Similar systems on the market can be My Music Staff and Aigam, the latter has features similar to Musaholic but allows you to make lessons exclusively online. The first one also offers the possibility to create invoices and register payments that do not fall within Musaholic's objectives aim to be just a system of management and search of lessons, also allows the possibility to enter various parameters for the search of a lesson.

 However, Musaholic is not intended to be distributed but is sold to schools or private facilities.

2. User Stories

   As a student, I want to book a lesson, so that I improve my ability to play my instrument.

   As a student, I want to delete my scheduled lesson, so I manage my time.

   As a teacher, I want to post a lesson announcement, so I earn money.
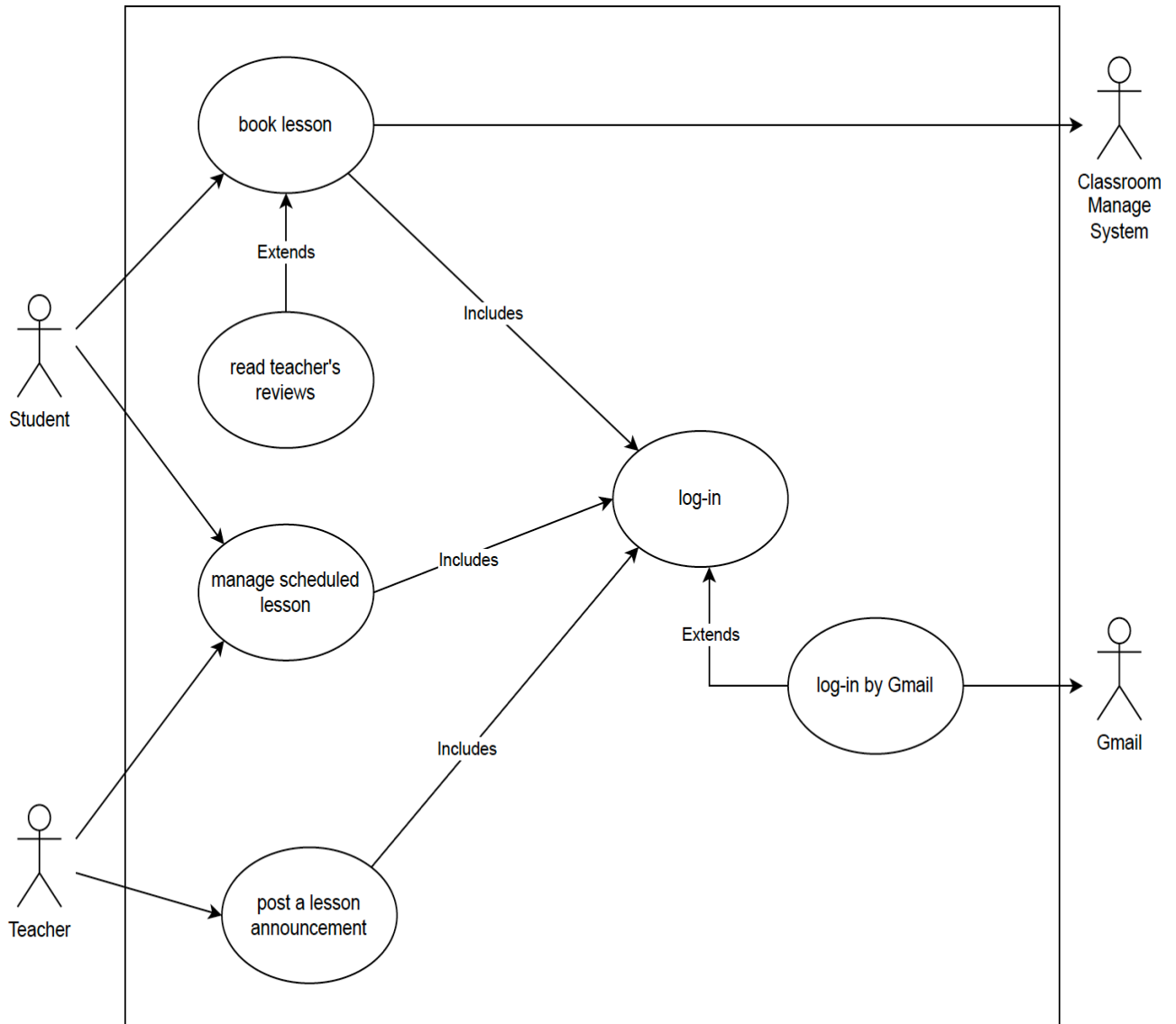
3. Functional Requirements

   The system shall provide the student with the option to book a lesson by selecting it from a list of results.

   The system shall show the student a list of results filtered by selecting the musical instrument(sax, piano, or guitar), the date, the time, and the price.

   The system shall remove a lesson from the scheduled lessons on student request.

4. Use Cases

4.1 Overview Diagram

4.2 Use case "book lesson" Internal Steps

Name: book lesson

1. The student request to book a Lesson
2. The system requires to the student to select the musical instrument, the price, the time and date of the lesson
3. The student select the musical instrument, the price, the time, and the date of the lesson
4. The system fetches the announcements from teachers, requests to the Classroom Manage System the list of free classrooms, and generates a list of lessons filtered with student's choices
5. The system shows to the student the list of lessons and asks them to select a lesson
6. The student select the lesson
7. The system asks the student to confirm the request by selecting "yes" or "no"
8. The student select "yes"
9. The system saves the lesson in the programming of the scheduled lessons and shows a success message to the student

Extensions:

4a. The system doesn't find any lesson in the search: The system warns the student and requires to the student to select the musical instrument, the price, the time, and the date of the lesson
6a. The student select "back": the system requires to the student to select the musical instrument, the price, the time, and the date of the lesson again
8a. The student select "no": the system shows to the student the list of lessons again