
SMART

QuickManage

<1.0>

Revision History

Date	Version	Description	Author
02/03/2013	0.1	Done Use Case Diagram, Introduction and 8 Use Case Specification Table.	Le Thanh Tuan
09/02/2013	0.2	Done 11 Use Case Specification Table.	Dang Thanh Binh
13/02/2013	0.3	Done Non functional requirement	Dang Thanh Binh

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1. Introduction

1.1 Purpose

This document provides a detailed description of QuickManage system. It includes the explanation of system's feature, the flow process, the design interface of software and how system deal with error. This SRS document is intended for both stakeholders and project team.

1.2 Scope

QuickManage is a Java desktop program that manages the daily operation of a local music and art school in HCMC. This software will be designed to make a convenience for both manager and staffs. The system is designed for 2 type of user: manager and staffs.

1.3 Assumptions and Dependencies

1.4 References

- <http://www.agilemodeling.com/essays/agileModelingRUP.htm>
- Priestley, M. (2004). *Practical Object-Oriented Design with UML*. Mc Graw Hill.

2. Specific Requirements

- **QuickManage** is the application that manages activities of music and art school. Thus, it provides adding, editing, deleting, deactivating, activating.

2.1 Actors

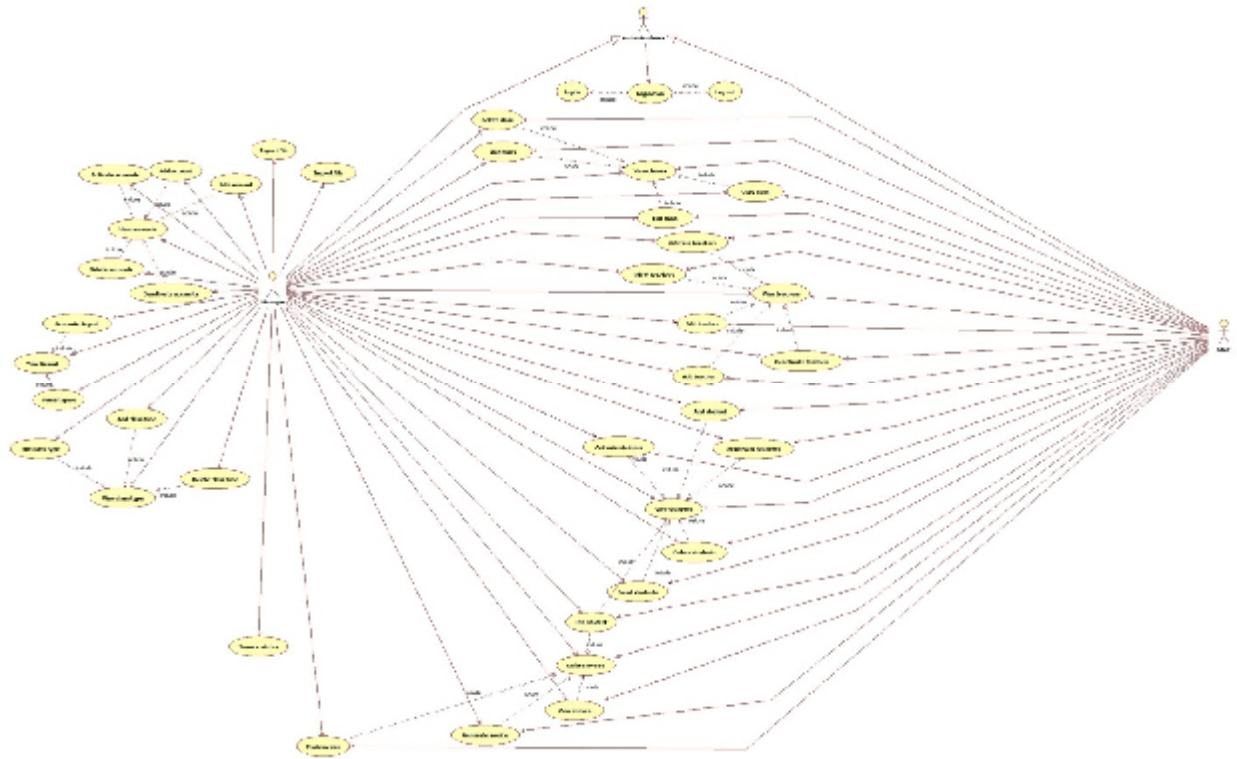
The application will contain three kinds of account which are manager and staffs.

+Manager account can be created by default manager. The username and password of this type of account is the same which is "manager". This administrator will primary manage types of account in this program such as: adding new staff, viewing and editing staff's information and delete staff's account.

+ Staff account which is created by manager. Staff has the role of adding, editing deleting teacher's information, deactivating and activating teacher. Moreover, staff also controls classes in responsibility of adding, editing, copying, deleting classes. Finally,

staff can add, edit, delete, deactivate, activate and enroll students.

2.2 Use Case Diagram



2.3 Use Case Specifications

2.3.1 Login

Use Case Name: log in

ID: UC001

Actors: Authorized user	Priority: High
Brief description: Authenticate the user.	
Pre-conditions: Account must have been created.	
Trigger: Validate user.	
Post-conditions: User must log out to ensure the security for the system.	
Normal flow: + User types username, password, and then pressing “Enter” or clicking on “Login” Button.	
Exceptional flows: +If wrong username or password, a warning popup show up and ask user to re-type username and pass word. +If the username and password fill boxes are empty, system will ask user to enter username and password.	

2.3.2 Logout

Use Case Name: User log out	ID: UC002
Actors: Authorized user	Priority: Normal
Brief description: Log out	
Pre-conditions: User must log in first	
Trigger: User finishes using the system	
Post-conditions: Logged out	
Normal flow: User clicks “Log out” Button.	
Exceptional flows:	

2.3.3 Add new Account

Use Case Name: Add new account	ID: UC003
Actors: Manager	Priority: Normal

Brief description: Add new account of staff or manager.
Pre-conditions: Manager must log in; the creating new account is not duplicated with the existing account on the system.
Trigger: The new account has been employed.
Post-conditions: Manager logs out after finishing.
Normal flow: + Manager must press the icon of adding new User, and then the popup will occur. + Manager can fill in username, password and other information fields. +Press “Enter” or button “OK” to finish the action of adding new account.
Exceptional flows: A warning frame show up if there exist invalid format information or the account that is going to create has been existed in the system.

2.3.4 Edit Account

Use Case Name: Edit account	ID: UC004
Actors: Manager	Priority: 5
Brief description: Edit information of staff or manager.	
Pre-conditions: Manager must login; Accounts must be created first.	
Trigger: Manager wants to change staff information.	
Post-conditions: Manager logs out; Information will be changed.	
Normal flow: + Manager chooses the account that manager want to edit information. + Manager clicks on Edit button, and then fills in or change necessary information. +Press “Enter” or Button “Edit” to finish the action.	
Exceptional flows: If the changing information is not valid, a warning will tell manager where the errors are.	

2.3.5 Delete Account

Use Case Name: Delete account	ID: UC005
Actors: Manager	Priority: Normal

Brief description: Delete account
Pre-conditions: Manager must log in first;
Trigger: Manager wants to delete unused account
Post-conditions: Manager can view existing accounts or log out
Normal flow: + Manager chooses the accounts that manager want to delete. Then click the delete button to remove the account.
Exceptional flows: The manager accounts can be deleted but it must exist one default manager account

2.3.6 View Account

Use Case Name: View account	ID: UC006
Actors: Manager	Priority: Normal
Brief description: Manager can view all available accounts in the system.	
Pre-conditions: Manager must login.	
Trigger: After manager log in.	
Post-conditions: Manager can add, edit, delete, deactivate and activate account.	
Normal flow: Manager views available account with full information directly after logging to the system.	
Exceptional flows: There is no available account in the system except Manager account.	

2.3.7 Add Teacher

Use Case Name: Add teacher	ID: UC007
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Actors: Manager or Staff	Priority: 5
Brief description: Adding teacher	
Pre-conditions: Manager or Staff must log in	
Trigger: Manager or Staff wants to add teacher's information to the list	
Post-conditions: Manager or Staff can view the teacher list	
Normal flow: + Manager or Staff clicks on the button "Add Teacher", and then the system displays a form for manager and staff to input the teacher's information. +After finishing inputting teacher's information, manager or staff can press "Enter" or click button "OK" to finish the action of adding new teacher's information.	
Exceptional flows: If the changing information is not valid, a warning will tell manager where the errors are.	

2.3.8 Delete Teacher

Use Case Name: Delete teacher	ID: UC008
Actors: Manager and Staff	Priority: 5
Brief description: Delete Teacher information	
Pre-conditions: Manager or Staff must log in	
Trigger: Manager or Staff wants to delete the teacher information from the list	
Post-conditions: Manager or Staff can view the teacher list after deleting	
Normal flow: Manager or staff chooses the teacher that manager want to delete. Then click the delete button to remove teacher information.	
Exceptional flows: Manager or Staff has not chosen any teacher information to delete, system do nothing.	

2.3.9 Edit Teacher

Use Case Name: Edit Teacher	ID: UC010
Actors: Manager or Staff.	Priority: 5

Brief description: Edit teacher information
Pre-conditions: Manager or Staff must log in the systems
Trigger: Manager or Staff wants to edit teacher
Post-conditions: Manager or Staff can view the teacher list that has been edited
Normal flow: + Manager or staff chooses the teacher that users want to edit information. + Manager or staff clicks on Edit button, and then fills in or change necessary information.
Exceptional flows: The information of teacher being edited is not valid.

2.3.10 *View Teacher*

Use Case Name: View teachers	ID: UC011
Actors: Manager or Staff.	Priority: 5
Brief description: Allow user to view list of song	
Pre-conditions: Manager or Staff must log in to the system.	
Trigger: User wants to view the list of teachers	
Post-conditions: User can view the teacher with pagination	
Normal flow: User clicks on page number to browse between teacher list	
Exceptional flows: The list does not have any teacher	

2.3.11 Add Student

Use Case Name: Add Student	ID: UC007
Actors: Manager or Staff	Priority: 5
Brief description: Adding student	
Pre-conditions: Manager or Staff must log in	
Trigger: Manager or Staff wants to add student's information to the list	
Post-conditions: Manager or Staff can view the student list	
Normal flow: + Manager or Staff clicks on the button "Add Student", and then the system displays a form for manager and staff to input the student's information. +After finishing inputting student's information, manager or staff can press "Enter" or click button "OK" to finish the action of adding new student's information.	
Exceptional flows: If the changing information is not valid, a warning will tell manager where the errors are.	

2.3.12 Delete Student

Use Case Name: Delete student	ID: UC008
Actors: Manager and Staff	Priority: 5
Brief description: Delete Teacher information	
Pre-conditions: Manager or Staff must log in	
Trigger: Manager or Staff wants to delete the teacher information from the list	
Post-conditions: Manager or Staff can view the teacher list after deleting	
Normal flow: Manager or staff chooses the teacher that manager want to delete. Then click the delete button to remove teacher information.	
Exceptional flows: Manager or Staff has not chosen any student information to delete, system do nothing.	

2.3.13 Edit Student

Use Case Name: Edit Student	ID: UC010
Actors: Manager or Staff.	Priority: 5
Brief description: Edit student information	
Pre-conditions: Manager or Staff must log in the systems	
Trigger: Manager or Staff wants to edit student	
Post-conditions: Manager or Staff can view the student list that has been edited	
Normal flow: +Staff clicks on the student information and clicks on the “Edit Button” + The form for editing will occur and Manager or Staff can edit the information of students. +Finally, press “Enter” or button “Edit” to finish the action of editing student.	
Exceptional flows: The information of student being edited is not valid.	

2.3.14 View Student

Use Case Name: View student	ID: UC011
Actors: Manager or Staff.	Priority: 5
Brief description: Allow user to view list of student	
Pre-conditions: Manager or Staff must log in to the system.	
Trigger: User wants to view the list of student	
Post-conditions: User can view the teacher with pagination	
Normal flow: User clicks on page number to browse between student list	
Exceptional flows: The list does not have any student.	

2.3.15 Add Class

Use Case Name: Add Class	ID: UC007
Actors: Manager or Staff	Priority: 5
Brief description: Adding class	
Pre-conditions: Manager or Staff must log in	
Trigger: Manager or Staff wants to add class's information to the list	
Post-conditions: Manager or Staff can view the class list	
Normal flow: + Manager or Staff clicks on the button "Add class", and then the system displays a form for manager and staff to input the class's information. +After finishing inputting class's information, manager or staff can press "Enter" or click button "OK" to finish the action of adding new class's information.	
Exceptional flows: If the changing information is not valid, a warning will tell manager where the errors are.	

2.3.16 Delete Class

Use Case Name: Delete Class	ID: UC008
Actors: Manager and Staff	Priority: 5
Brief description: Delete Class information	
Pre-conditions: Manager or Staff must log in	
Trigger: Manager or Staff wants to delete the class information from the list	
Post-conditions: Manager or Staff can view the class list after deleting	
Normal flow: Manager or staff chooses the class that manager want to delete. Then click the delete button to remove class information	
Exceptional flows: Manager or Staff has not chosen any class information to delete, system do nothing.	

2.3.17 Edit Class

Use Case Name: Edit Class	ID: UC010
Actors: Manager or Staff.	Priority: 5
Brief description: Edit class information	
Pre-conditions: Manager or Staff must log in the systems	
Trigger: Manager or Staff wants to edit class	
Post-conditions: Manager or Staff can view the class list that has been edited	
Normal flow: +Users clicks on the class information and clicks on the “Edit Button” + The form for editing will occur and Manager or Staff can edit the information of classes. +Finally, press “Enter” or button “Edit” to finish the action of editing class.	
Exceptional flows: The information of student being edited is not valid.	

2.3.18 View Class

Use Case Name: View class	ID: UC011
Actors: Manager or Staff.	Priority: 5
Brief description: Allow user to view list of class	
Pre-conditions: Manager or Staff must log in to the system.	
Trigger: User wants to view the list of class	
Post-conditions: User can view the class with pagination	
Normal flow: User clicks on page number to browse between class list	
Exceptional flows: The list does not have any class.	

2.3.19 *Enroll student*

Use Case Name: Enroll student	ID: UC011
Actors: Manager or Staff.	Priority: 5
Brief description: Allow user to enroll student into the class.	
Pre-conditions: Manager or Staff must log in to the system.	
Trigger: User wants to enroll student into the class	
Post-conditions: User can view the enrollment information.	
Normal flow: User choose the class first and then choose the student into class as well as choosing teacher.	
Exceptional flows: The users do not enter anything. System does nothing.	

2.3.20 *Add new Account*

Use Case Name: Add new class type	ID: UC003
Actors: Manager	Priority: Normal
Brief description: Add new class type.	
Pre-conditions: Manager must log in	
Trigger: User wants to add new class type .	
Post-conditions: Manager logs out after finishing.	
Normal flow: + Manager must press the icon of adding new User, and then the popup will occur. + Manager can fill the necessary information. +Press "Enter" or button "OK" to finish the action of adding new class type.	
Exceptional flows: A warning frame show up if there exist invalid format information or the class type that is going to create has been existed in the system.	

2.3.21 Edit Class Type

Use Case Name: Edit class type	ID: UC004
Actors: Manager	Priority: 5
Brief description: Edit information of Class type.	
Pre-conditions: Manager must login; Class type must be created first.	
Trigger: Manager wants to change class type information.	
Post-conditions: Manager logs out; Information will be changed.	
Normal flow: + Manager chooses the class type that manager want to edit information. + Manager clicks on Edit button, and then fills in or change necessary information. +Press “Enter” or Button “Edit” to finish the action.	
Exceptional flows: If the changing information is not valid, a warning will tell manager where the errors are.	

2.3.22 Delete Class type

Use Case Name: Delete class type	ID: UC005
Actors: Manager	Priority: Normal
Brief description: Delete account	
Pre-conditions: Manager must log in first.	
Trigger: Manager wants to delete unused class type	
Post-conditions: Manager can view existing class type or log out	
Normal flow: + Manager chooses the class type that manager want to delete. Then click the delete button to remove it.	
Exceptional flows:	

2.3.23 View Class type

Use Case Name: View class type	ID: UC006
Actors: Manager	Priority: Normal
Brief description: Manager can view all available class type in the system.	
Pre-conditions: Manager must login.	
Trigger: After manager log in.	
Post-conditions: Manager can add, edit, delete, deactivate and activate account.	
Normal flow: Manager views available class type with full information directly after logging to the system.	
Exceptional flows: There is no available class type in the system.	

2.3.24 Create invoice

Use Case Name: Create invoice	ID: UC011
Actors: Manager or Staff.	Priority: 5
Brief description Generate invoice for one or more students	
Pre-conditions: Manager or Staff must log in to the system.	
Trigger: User wants to generate invoice for one or more students	
Post-conditions: User can view invoice details.	
Normal flow: User chooses the student/group of students first and then clicks on generate invoice.	
Exceptional flows: Student is deactivated or user inputs wrong data.	

2.3.25 *Edit invoice status(1)*

Use Case Name: Edit invoice status(1)	ID: UC011
Actors: Manager or Staff.	Priority: 5
Brief description Allow user to edit invoice from unpaid to paid	
Pre-conditions: Manager or Staff must log in to the system.	
Trigger User wants to change invoice status	
Post-conditions: User can view the recently edited invoice	
Normal flow: User chooses the invoice first and clicks Edit.	
Exceptional flows: The users do not enter anything. System does nothing.	

2.3.26 *Edit invoice status (2)*

Use Case Name: Edit invoice status(2)	ID: UC011
Actors: Manager or Staff.	Priority: 5
Brief description Allow user to edit invoice from paid to unpaid	
Pre-conditions: Manager or Staff must log in to the system.	
Trigger User wants to change invoice status	
Post-conditions: User can view the recently edited invoice	
Normal flow: User chooses the invoice first and clicks Edit.	
Exceptional flows: User does not have manager privilege to perform the action.	

2.3.27 Delete invoice

Use Case Name: Delete invoice	ID: UC011
Actors: Manager.	Priority: 5
Brief description: Allow user to delete invoice	
Pre-conditions: Manager must log in to the system.	
Trigger User wants to delete invoice	
Post-conditions: User can view the recently edited invoice	
Normal flow: User chooses the invoice first and clicks Delete.	
Exceptional flows: User does not have manager privilege to perform the action.	

2.3.28 Create Report

Use Case Name: Create Report	ID: UC011
Actors: Manager.	Priority: 5
Brief description: : When manager want to generate report	
Pre-conditions: Manager must log in to the system.	
Trigger User wants to create report.	
Post-conditions: User can view the recently created report	
Normal flow: User chooses the class and then clicks on generate button.	
Exceptional flows: User does not have manager privilege to perform the action	

2.3.29 Export File

Use Case Name: Export File	ID: UC011
Actors: Manager.	Priority: 5
Brief description: Allow user to export file.	
Pre-conditions: Manager must log in to the system.	
Trigger: User wants to export file	
Post-conditions: User can view which information they wish to export.	
Normal flow: User Click the button to choose which part they want to export(eg:teacher,student)	
Exceptional flows: The users do not click the export button. System does nothing.	

2.3.30 Import File

Use Case Name: Import File	ID: UC011
Actors: Manager.	Priority: 5
Brief description: Allow user to import file.	
Pre-conditions: Manager must log in to the system.	
Trigger: User wants to import file	
Post-conditions: Users look at the file before they choose.	
Normal flow: User can choose text file to import after that the system will automatically do process.	
Exceptional flows: The users do not click the export button. System does nothing.	

2.4 Non-Functional Requirements

2.4.1 Installability

- **QuickManage** will be written as a java desktop program which can operate on multiple platforms such as Window (XP/7) or Linux (Fedora 17, 18 or Ubuntu 12.04/12.10+). Moreover, the minimum hardware for this application will be the Pentium 3 with 1GB RAM, 1GB free hard disk space.
- **QuickManage** will be provided as the executable jar file named “QuickManage” instead of the source code. Thus, after installing the jar file to the computer, user can run the application directly through the icon logo of the program.

2.4.2 Usability

SMART will provide the easy understanding interactive interface that every user can adapt the **QuickManage** immediately. Moreover, there is a User Guide that can help users clearly about show to use each function in the program.

2.4.3 Performance

- **QuickManage** support a friendly interface which helps users can control the system easily. They can add, edit , delete the account , teacher, student etc. faster by using the tool button panel .Moreover , QuickManage can adapt all requirement in music school like enroll student , copy class. This software also provide a schedule which is clear by drag and drop the class time.

2.4.4 Scalability

- The application will have the GUI that fit with the optimized resolution of 1024 x 768 pixels.