
Group 2

**Simplified Coding Turk system
Software Requirements Specification
For Turk System**

Version 1.0

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Revision History

Date	Version	Description	Author
10/12/2017	1.0	Updated user-case diagram	Ted Chen Liangming Wu Eric Yan Yongcheng Zhu

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Software Requirements Specifications

1. Introduction

In this section, a brief generalization of the entire Software Requirement Specifications document is provided. The topic of this section is divided into the purpose, scope, definitions, acronyms, abbreviations, references, and finally the overview.

1.1. Purpose

The purpose of this Software Requirements Specification documentation, is to accurately and concisely identify the requirements of the Simplified Coding Turk System. This documentation will carefully identify the functionalities of each components and subsystems in the Turk System. Moreover, this document will provide a clear portrayal of the interactions between the subsystems and the external applications both explicitly and implicitly to help all types of audiences understand the general gist of our system, as well as explaining the system's constraints, behaviors, and interface. This document is intended as a form of communication between the developer(s) and client(s).

1.2 Scope

The Simplified Coding Turk System is an electronic marketplace for clients and developers to come together to collaborate effectively. In this system, there are several types of users, which all comes along with their own privileges and constraints. These users are visitors, clients, developers, and super-users.

Visitors are unregistered users. They have the lowest privileges in the system. They're restricted to only able to access grand statistics and public projects of the system. If they ever wish to participate in the system, they can apply for an account registration to become either a client or developer. Their registration is pending to be approved by the super-user.

Clients are registered users. They have moderate privileges in the system. The client has the privilege to open a request for a project development, pick a developer for the project, rate the developer after project completion, and request for an account termination.

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Developers are registered users. They have moderate privileges in the system. The developer has the privilege to bid on a project and wait for client's approval, rate a client after project completion, and request for an account termination.

Super-users are the keeper of the system. They have the highest privileges in the system. They have the privilege to approve and disapprove user registrations, warning appeal, and account termination requests.

The process of this system begins by the client requesting a project for development. The client provides a detailed specification, deadline, and a starting bid as part of the request. This project is now at a "open" status. Developers comes in here to bid on this project. The client would choose the most fitting developer (usually with the lowest bidding) to accept this project. The project is now at a "closed" status. After the project is completed, both client and developer can rate each other up to 5 stars. Any user with low average rating will be have their account marked "warning" in their profile by the system. In order to remove this status, they must write an appeal to the super-user to be approved.

1.3 Definitions, Acronyms, and Abbreviations

Term	Definition
Guest	Someone who has not registered an account
Applicant	Someone who submitted the application but has not yet been approved
Blacklisted User	The applicant who has his/her application declined or thrown out user with too low or too high rating. The blacklisted user can't apply for an account for a year
Client	User who posts system demands and looking for developers to implement it
Developer	User who implements the system the client desired
Super-User (SU)	Admin who accepts or declines applications and held half of the payment client offered to developer
The System	The unified system that is being developed. (Turk System)

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Subsystem	A small module with its own functionalities that is part of the unified system. (Ex. Rating System, Registration System, etc.)
Component	A functionality used by both the subsystem and the system. (Ex. deposit money, write an appeal, etc.)

1.4 References

Requirement for a simplified coding Turk system, *CSC322-Software Engineering Spec_sample*, *CSC322-Software Engineering Use-Case Modeling*, 9/8/2017, *CSC322-Software Engineering*

1.5 Overview

This specification is organized into following sections:

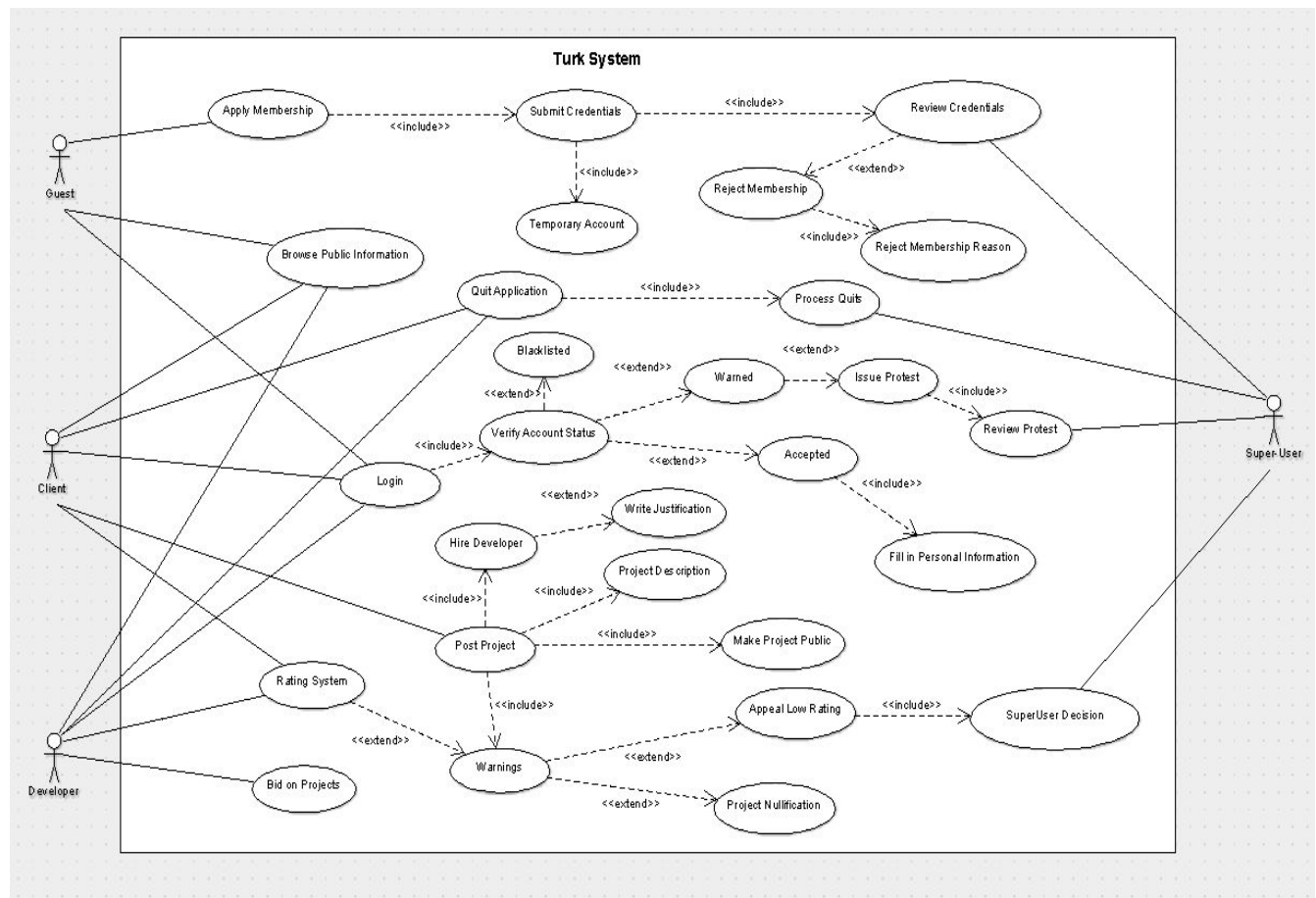
- *Introduction*: Introduce the overall content of this specification. In addition, elaborate the system's purpose and scope, provide definitions for the reader.
- *Overall Description*: List all the factors that affect the system, pave the way to the system requirements. Include the introduction of use-case models, a list assumptions and dependencies of the system.
- *Specification Requirements*: Detailed specification of the system. Include deep explanations of the use-case models and supplemental requirements that were not included in the use-case.
- *Supplemental Information*: Provide supplemental information that makes the system requirement specification easier to use.

2. Overall Description

In this section, the overall model and foundation of our application will be detailed here with the help of Use-Case Diagrams and show on a basic level how the application may function for users. This section will also provide possible assumption and dependencies made when users use the application for the intended purposes.

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2.1 Use-Case Model Survey



2.2 Assumptions and Dependencies

- One assumption to be made of the clients and developers is that they understand how to properly set project due dates and adhere to the time allotted respectively. For this application to work smoothly, it is expected for both parties to understand the time necessary and process in developing a project.
- It is also assumed that every user will adhere to the global time on the application, for instance, the application's global time will refer to US EST so that scheduling and delivery will all adhere to US EST time zone to avoid conflicts in communication.
- Also, transaction fees due to currency differences are dependent on the client and developer to sort out. It is recommended that currency used for transactions be of USD to avoid any possible fees from exchanging currency between parties.

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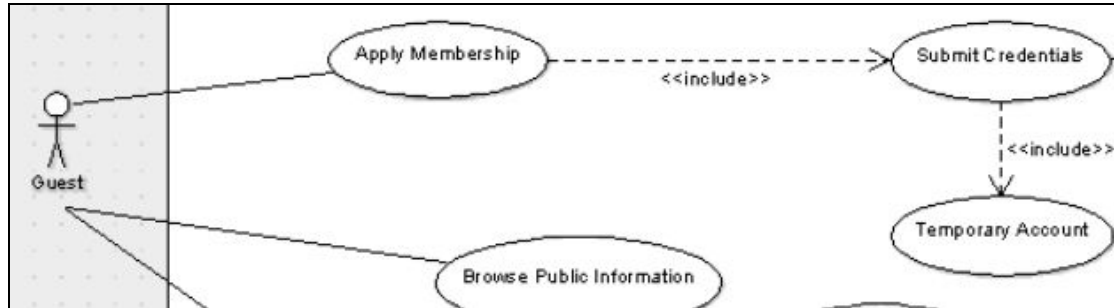
- Lastly, proper internet connection to the application is necessary as accessing user accounts and uploading files for account approval all need internet access.

3. Specification Requirements

This section contains a detailed analysis of the functions found available in the application.

3.1 Use-Case Reports

3.1.1 User Class 1 – Guest



[G1]

Use-Case: Apply Membership

Description: Non-members are allowed to apply for a permanent account. Memberships need to be approved by a Superuser account. Before approval, Guests have access to a temporary account with their own login and password.

[G2]

Use-Case: Submit Credentials

Description: Fill in account informations, including initial deposit amount.

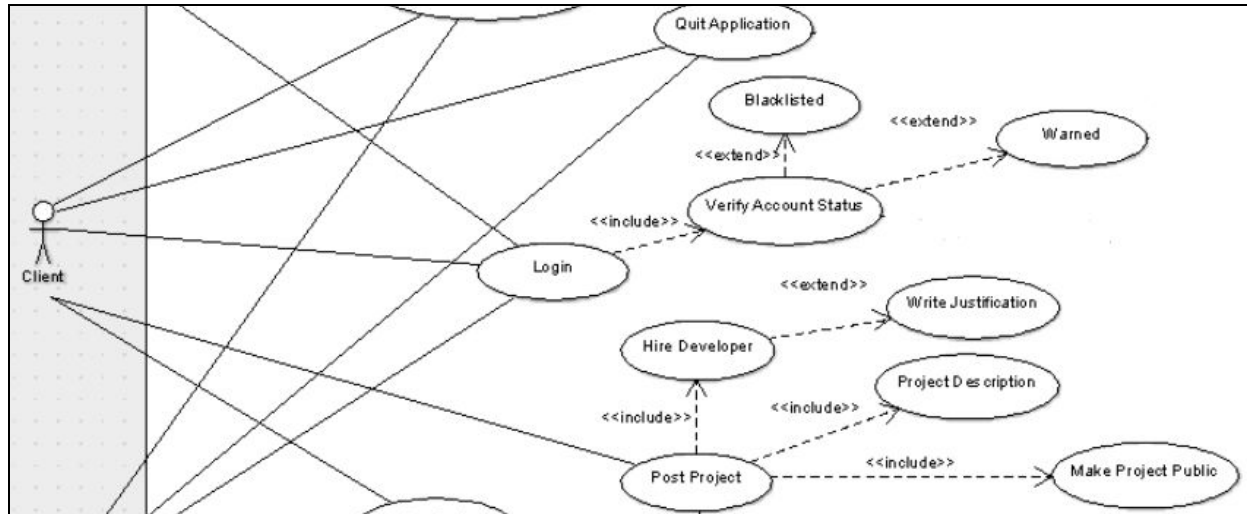
[G3]

Use-Case: Temporary Account

Description: Upon filling and submitting credentials, guests are granted a temporary account.

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3.1.2 User Class 2 – Client



[C1]

Use-Case: Post Project

Description: Clients can create project specifications and submit them into the system. Clients will state all the specifications and functionalities for their desired system, along with the budget, time restriction, and/or any other conditions they require of a developer. The project specification will be added onto the system's list of open projects for other users to view and bid on.

[C2]

Use-Case: Hire Developer

Description: After posting a project specification, Clients can choose to hire an interested Developer. Clients will be alerted and given access to a list of Developers that bid on their project specification. Despite the current winning bid, the Client is allowed to pick and choose any Developer that has bid on their project.

[C3]

Use-Case: Write Justification

Description: After choosing a developer to hire, Clients are mandated to write a short justification as to why the chosen developer was hired.

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[C4]

Use-Case: Project Description

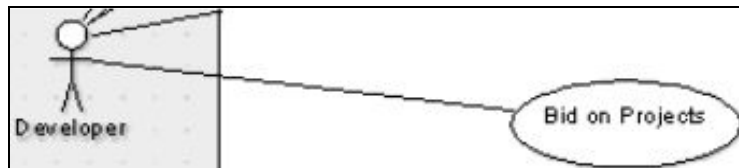
Description: Before Client is allowed to post a project for hire, the Client must provide a project description detailing what the specifications of the project are.

[C5]

Use-Case: Make Project Public

Description: Upon posting the project, clients are able to make their projects publically viewed as the projects, by default, are private to non-participating parties.

3.1.3 User Class 3 – Developer



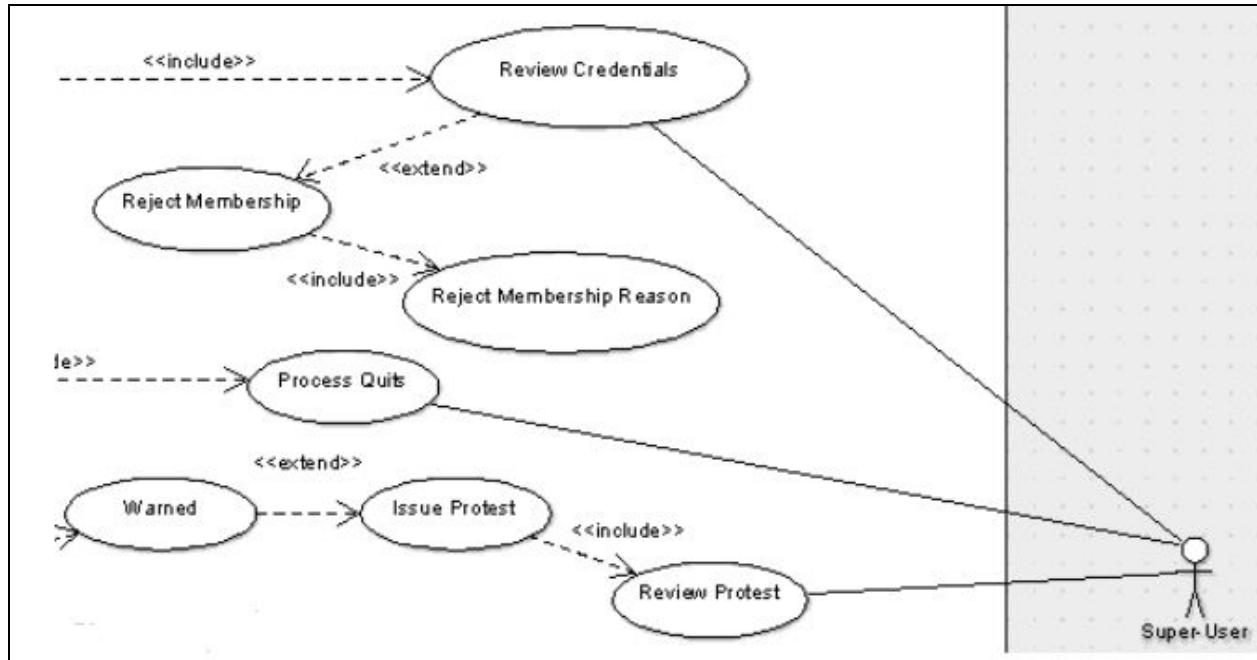
[D1]

Use-Case: Bid On Projects

Description: After a Client posts a project specification, if a Developer is interested in working on the project, the Developer can place a bid on the project. If there is currently no bid on the project, the interested Developer will place a monetary bid according to (or lower) than the amount requested of the Client. Subsequent parties and bids will have to be lower than the current bid amount.

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3.1.4 User Class – Super-User



[S1]

Use-Case: Review Credentials

Description: Applications for membership submitted by Guest users will be available to Super-User accounts. The Super-User will then check the information/credentials of the applicant to determine whether to accept or deny their application. If the application is rejected, the Super-User is required to provide a statement as reason for the rejection.

[S2]

Use-Case: Process Appeals

Description: Appeals of warnings to registered users will be sent to Super-User accounts for review. After a Super-User reads the appeal and examines any evidence, the Super-User can choose to either keep or remove the warning from the user. Any user with two confirmed warnings will be automatically removed from the system.

[S3]

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Use-Case: Review Protest

Description: Super-user reviews an appeal message from a warned user. If the appeal is acceptable, the super-user will revoke the warning status from the user's profile. Otherwise the status remains.

[S4]

Use-Case: Super User Decision

Description: Super User will resolve the dispute between two conflicting developer and client. Depending on the situation, the super-user gives a final decision that both developer and client must comply to.

[S5]

Use-Case: Process Quits

Description: When a user sends in an quit application to terminate their account, the super-user reviews the application and evaluate their reason to terminate account. If acceptable, the super-user will terminate that user's contract with the system. Otherwise, the user remains as part of the system.

[S6]

Use-Case: Reject Membership

Description: If the application submitted does not match criteria, super-user rejects this user. This user will be placed in the blacklist.

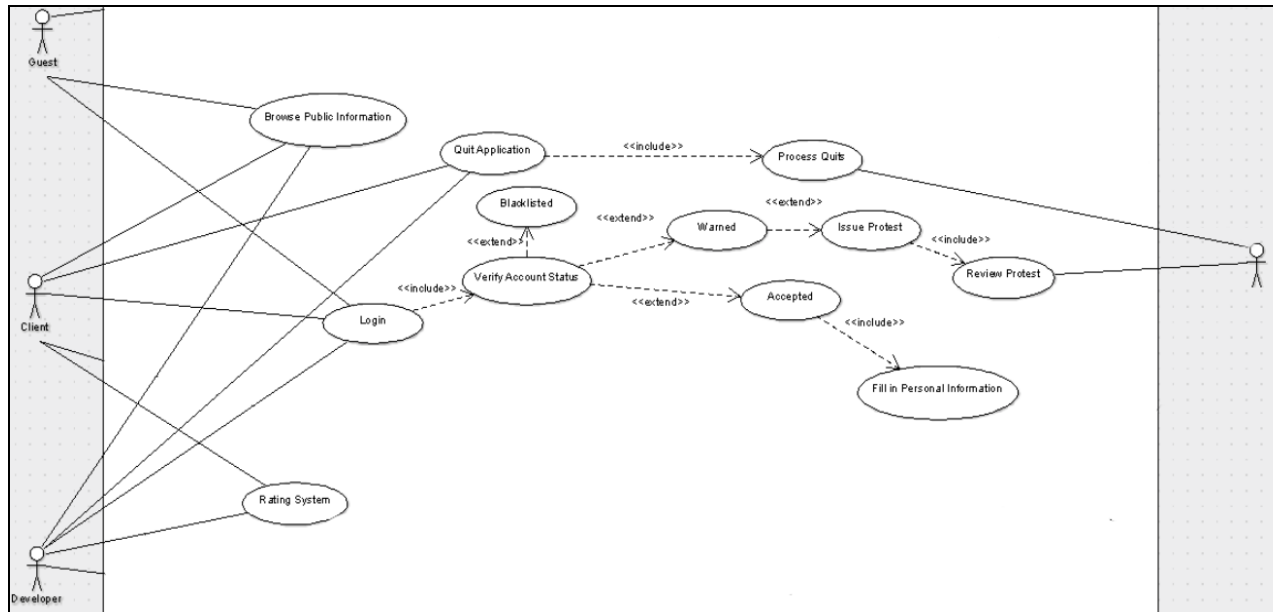
[S7]

Use-Case: Reject Membership Reason

Description: If a super-user rejects an applicant, the super-user must provide a valid and reasonable response back to the applicant.

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3.1.5 Shared Use-Cases



[ALL1]

Use-Case: Browse Public Informations

Description: Any user on the system is free to search and review any open and ongoing projects on the system. The information that is made publically accessible for a project will be up to the discretion of the Client that posted the project.

[CD1]

Use-Case: Rating System

Description: At the end of the project timeframe, both parties (the Client and the Developer) may give a rating and review to each other. The rating will be from 1, the lowest, to 5, the highest. For example, a rating of 1 would be given if the project was not completed and a rating of 5 would indicate that every condition was met. A short written review will be attached with the rating to clarify the reasoning for the ratings.

[CD2]

Use-Case: Appeal Low Rating

Description: Any Client or Developer who receives a rating of 2 or less for five or more projects will receive a warning from the system. The user can then write an appeal to the Super-User to protest the warning. The system will also send a warning if the user's reviews to others are excessively low or high.

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[CD3]

Use-Case: Warnings

Description: When a user receives a rating < 3, warning state is triggered.

[CD4]

Use-Case: Login

Description: All users of the application are expected to login in order receive proper privileges in order to receive access to other functions found in the application.

[CD5]

Use-Case: Verify Account Status

Description: Users log into the system are checked by the system to determine the status of their account. Depending on the status of the account, users may or may not be able to access the application.

[CD6]

Use-Case: Blacklisted

Description: Upon verification of account status, if user is found to be blacklisted they are blocked from accessing the application.

[CD7]

Use-Case: Warned

Description: Upon verification of account status, user may be warned by the system regarding any rules they have broken or any violations to the terms of the application.

[CD8]

Use-Case: Issue Protest

Description: If users receiving warning deem the warning as unfair or unsolicited, users are free to issue a protest to the SuperUser regarding the warning.

[CD9]

Use-Case: Accepted

Description: If a user who is a guest has their application accepted by the SuperUser, they are

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greeted by the system and informed about their acceptance into the system as a Client or Developer.

[CD10]

Use-Case: Fill in Personal Information

Description: Upon signing in, if the system recognizes an “accepted” status, the user is prompted to a screen to fill in personal informations for the first time.

3.2 Supplementary Requirements

- Given that the system stores private information between users, it is in the burden of the users to keep track of their accounts and make sure no private information is leaked on their end. It is crucial that users do not leak clients/developer in order to respect each other.
- As this system will be dependent on clients posting projects and developers accepting and working upon them, proper working licenses or proper documents are necessary depending on the developer’s working origin.
- This system is strictly used for the sole owner of their respective account. Accounts found to be shared or used in a way that is indicative of fraudulent activities will not be condoned.

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4. Supporting Information

This Software Requirement Specification includes:

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