# Application Manager System Test Plan

Document Author: Praneel Magapu

Date: 10/ 03/ 2024

## Introduction

The System Test Plan outlines test cases designed to validate the functionality and state transitions of the Application Manager system, ensuring applications move correctly through various states.

To run the tests:

1. Launch the Application Manager program.
   1. Right click on ApplicationManagerGUI class.
   2. Select Run As > Java Application
2. Select the relevant options from the user interface to initiate the desired test case.

The application interface will guide users through managing applications, including adding, transitioning, and viewing application details.

## Test Files

***app1.txt***

\*1,Review,New,Application summary,,false,

-[Review] Note 1

\*3,Interview,Old,Application summary,reviewer,false,

-[Review] Note 1

-[Interview] Note 2

that goes on a new line

\*7,RefCheck,Old,Application summary,reviewer,true,

-[Review] Note 1

-[Interview] Note 2

-[RefCheck] Note 3

\*14,Waitlist,New,Application summary,,false,ReviewCompleted

-[Review] Note 1

-[Waitlist] Note 2

that goes on a new line

\*16,Offer,Old,Application summary,reviewer,true,

-[Review] Note 1

that goes on a new line

-[Interview] Note 2

-[RefCheck] Note 3

-[Offer] Note 4

\*15,Closed,Old,Application summary,reviewer,true,OfferCompleted

-[Review] Note 1

that goes on a new line

-[Interview] Note 2

-[RefCheck] Note 3

-[Offer] Note 4

-[Closed] Note 6

## System Tests

Write at least 5 tests. We will grade the first five. Your tests should consider more complex scenarios than basic system startup and an invalid test file.

|  |  |  |  |
| --- | --- | --- | --- |
| Test ID | Description | Expected Results | Actual Results |
| Test 1: Create New Application (A1) | Preconditions: No prior applications in the system.  1. Start the ApplicationManager program.  2. From the UI, select "Add New Application."  3. Enter Application ID: 1, Status: New, Summary: Software Engineer Application, and leave Reviewer blank.  4. Submit the form. | A new application with ID 1 is added to the system. The system should display the following:  - Application ID: 1  - Status: New  - Summary: Software Engineer Application. | A new application with ID 1 is added to the system. The system displays the following:  - Application ID: 1  - Application Type: New  - Summary: Software Engineer Application. |
| Test 2: Transition to Review State (A2) | Preconditions: Application with ID 5 is in the "New" state.  1. Start the ApplicationManager program.  2. Select the application with ID 1.  3. Choose "Edit Selected Application" option.  4. Enter Reviewer: Admin B | Application with ID 1 should now be in the Review state. The system should display:  - Application ID: 5  - Status: Review  - Reviewer: Admin B  - A note: [Review] Admin B | You are able to edit selected application and view the details including Reviewer. |
| Test 3: Invalid Transition to Closed (A3) | Preconditions: Application with ID 5 is in the Review state.  1. Start the ApplicationManager program.  2. Select the application with ID 5.  3. Attempt to move the application directly to Closed. | The system should reject the transition and display an error message: "Invalid state transition." Application remains in the Review state. |  |
| Test 4: View Application Details (A4) | Preconditions: Application with ID 3 has progressed through Review and Interview states.  1. Start the ApplicationManager program.  2. Select the application with ID 3 and view details. | The application details should show:  - Current State: Interview  - Notes from previous states: [Review] Note 1, [Interview] Note 2. | A new application with ID 1 is added to the system. The system displays the following:  - Application ID: 1  - Status: New  - Summary: Software Engineer Application. |
| Test 5: Transition to Offer and Close (A5) | Preconditions: Application with ID 7 is in the RefCheck state.  1. Start the ApplicationManager program.  2. Select the application with ID 7.  3. Transition to Offer and add details.  4. Transition the same application to Closed. | Application with ID 7 transitions successfully through Offer and Closed. The final state should display:  - Status: Closed  - Notes: [Offer] Note 4, [Closed] Note 5. |  |