**URS**



**Author:** Alexander Popov

**Date:** 12-09-2023

**Version:** Version 2.0

**Status:** Finished

Contents

1. **Introduction**
2. **Functional** **requirements**
3. **Non-Functional** **requirements**
4. **Use** **cases**
5. **Screenshots**

Introduction

This software project aims to put together multiple tools to facilitate events management and promotion. Different users may have different levels of access and capabilities. This URS provides insight into the designed features, their priority and expected functionality as well as other additional information.

Functional Requirements

|  |  |  |
| --- | --- | --- |
| ID | Name | Priority |
| FR01 | Admins, event managers and users can log in the system | M |
| FR02 | Admins, event managers and users can log out of the system | M |
| FR03 | Admin can add branch | M |
| FR04 | Admin can edit branch | M |
| FR05 | Admin can delete branch | M |
| FR06 | Admin can add user | M |
| FR07 | Admin can edit user | M |
| FR08 | Admin can delete user | M |
| FR09 | Event organizer and user can read information about an event | M |
| FR10 | Event organizer can create an event | M |
| FR11 | Event organizer can edit an event | C |
| FR12 | Event organizer can remove an event | C |
| FR13 | User can upload a photo | M |
| FR14 | Student can sign up for an event | M |
| FR15 | Student can cancel sign up for an event | M |
| FR16 | Event organizer can scan a user’s qr code to check if they are signed up | C |
| FR17 | Web application is installable | C |

Non-Functional Requirements

|  |  |  |  |
| --- | --- | --- | --- |
| ID | Name | Priority | |
| NFR01 | Code maintainability | | M |
| NFR02 | Performance | | C |
| NFR03 | User friendliness | | M |
| NFR04 | Scalability | | C |

M – Must C - Could

Use Cases

|  |  |
| --- | --- |
| UC01 | Admins and Customers can log in the system |
| FR | FR01 |
| Actors | Admin  Customer |
| Description | To get access to the web/desktop system's functionality, actors should be able to log in in  the system using their credentials. |
| Pre-Condition | The actor has their credentials and the is application running, but is not logged in. |
| Trigger | The actor attempts any restricted action. |
| Main Success Scenario (MSS) | 1. System requests user credentials. 2. The actor enters their credentials. 3. The system checks if the entered data is correct.   The system allows the user to enter the rest of the program. |
| Extensions | 2a: Incorrect credentials  .1 The system doesn’t allow the actor to enter.  .2 The system displays a message that the user has entered wrong credentials.  .3 Return to MSS step 2. |
| Post-Condition | The actor is logged in. |

|  |  |
| --- | --- |
| UC02 | Admins and Customers can log out in the system |
| FR | FR02 |
| Actors | Admin  Customer |
| Description | Actor can log out. |
| Pre-Condition | The actor is already logged in. |
| Main Success Scenario (MSS) | 1. The actor logs out. 2. System logs out the actor. |
| Post-Condition | The actor is logged out |

Desktop

|  |  |
| --- | --- |
| UC03 | Admin can add Branch |
| FR | FR03 |
| Actors | Admin |
| Description | Actors can create a Branch. |
| Pre-Condition | The actor has a role of an Admin in the system. |
| Main Success Scenario (MSS) | 1. Actor navigates to branches page. 2. Actor attempt to add a branch. 3. System requests a branch name. 4. Actor fills out the name about the branch. 5. The branch is added to the system. |
| Extensions | 2a: Invalid input  .1 The system doesn’t allow the actor to add the Branch. It gives a message that prompts the user to input a name.  .2 Return to MSS step 3 |
| Post-Condition | The actor successfully created a branch. |

|  |  |
| --- | --- |
| UC04 | Admin can edit Branch |
| FR | FR04 |
| Actors | Admin |
| Description | Actors can rename the branches. (desktop app) |
| Pre-Condition | The actor has a role of an Admin in the system. |
| Main Success Scenario (MSS) | 1. Actor navigates to the branches page 2. Actor selects the branch to be renamed. 3. System requests a new name.   Actor enters a new name for the branch. |
| Extensions | 3a: Invalid input  .1 The system doesn’t allow the actor to rename the branch.  .2 A message prompts the user to input a name.  .3 Return to MSS step 3 |
| Post-Condition | The actor successfully updated a branch. |

|  |  |
| --- | --- |
| UC05 | Admin can delete Branch |
| FR | FR05 |
| Actors | Admin |
| Description | Actors can delete existing Branch. (desktop app) |
| Pre-Condition | There must already be a created branch to be deleted. |
| Main Success Scenario (MSS) | 1. Actor navigates to the branches page. 2. Actor selects the Branch to be removed.   Actor removes branch. |
| Post-Condition | The actor successfully deleted a branch. |

|  |  |
| --- | --- |
| UC06 | Admin can add User |
| FR | FR06 |
| Actors | * Admin |
| Description | Actors can create a User. |
| Pre-Condition | The actor has a role of an Admin in the system. |
| Main Success Scenario (MSS) | 1. Actor navigates to users’ page. 2. Actor attempts to add a user. 3. System requests user information 4. Actor fills out the information about the user. 5. The system adds the user. |
| Extensions | 4a. Actor fills in invalid data  .1 The system doesn’t allow the actor to rename the branch.  .2 A message prompts the user to input a name.  .3 Return to MSS step 3 |
| Post-Condition | The actor successfully created a user, that can be seen by all users of  the system. |

|  |  |
| --- | --- |
| UC07 | Admin can edit User |
| FR | FR07 |
| Actors | Admin |
| Description | Actors can edit the users. (Desktop app) |
| Pre-Condition | The actor has a role of an Admin in the system. |
| Main Success Scenario (MSS) | 1. Actor navigates to the user’s page. 2. Actor selects the user to be changed. 3. Actor edits the existing information of the user. |
| Post-Condition | The actor successfully updated a user. |

|  |  |
| --- | --- |
| UC08 | Admin can delete User |
| FR | FR08 |
| Actors | Admin |
| Description | Actors can delete existing User. (desktop app) |
| Pre-Condition | There must already be a created user to be deleted. |
| Main Success Scenario (MSS) | 1. Actor navigates to the users’ page. 2. Actor selects the user to be removed. 3. Actor removes user. |
| Post-Condition | The actor successfully deleted the user. |

Website

|  |  |
| --- | --- |
| UC09 | Event organizer and user can read information about an event |
| FR | Event organizer and user can read information about an event |
| Actors | * Admin * Customer |
| Description | Actor can view details about events. |
| Pre-Condition | There must already be a created event to be viewed. |
| Main Success Scenario (MSS) | 1. Actor navigates to the list of events. 2. Actor selects the event to be viewed. 3. The system displays the event information. |
| Post-Condition | The actor successfully viewed an event. |

|  |  |
| --- | --- |
| UC10 | Event organizer can create an event |
| FR | FR10 |
| Actors | Event organizer |
| Description | Event organizer can create an event with a picture and information |
| Pre-Condition | Actor must be logged in as an event organizer |
| Main Success Scenario (MSS) | 1. Actor navigates to the page for creating events. 2. System requires information. 3. Actor fills in the information. 4. Actor creates event. |

|  |  |
| --- | --- |
| UC11 | Event organizer can edit an event |
| FR | FR11 |
| Actors | Event organizer |
| Description | Event organizer can edit the picture and information of events |
| Pre-Condition | Actor must be logged in as event organizer |
| Main Success Scenario (MSS) | 1. Actor navigates to the page for events. 2. Actor chooses event. 3. Actor navigates to the page for editing the event. 4. System requires information. 5. Actor fills in the information. 6. Actor saves the event changes. |

|  |  |
| --- | --- |
| UC12 | Event organizer can remove an event |
| FR | FR12 |
| Actors | Event organizer |
| Description | Event organizer removes an event |
| Pre-Condition | Actor must be logged in as event organizer and the event must be created. |
| Main Success Scenario (MSS) | 1. Actor navigates to an event. 2. Actor attempts to remove event. 3. System prompts for confirmation. 4. Actor confirms. |

|  |  |
| --- | --- |
| UC13 | User can set a profile image |
| FR | FR13 |
| Actors | * Event organizer * Student Comitee |
| Description | The user can choose a photo to be displayed in the contacts page |
| Pre-Condition | Actor must be logged in |
| Main Success Scenario (MSS) | 1. Actor navigates to the profile page. 2. Actor attempts to change photo. 3. Actor selects a picture. |

|  |  |
| --- | --- |
| UC14 | Student can sign up for an event |
| FR | FR14 |
| Actors | Student |
| Description | Student can sign up for an event |
| Pre-Condition | Actor must be logged in |
| Main Success Scenario (MSS) | 1. Actor navigates to an event’s page. 2. Actor signs up. |
| Extensions | 2a. Actor is already signed up.  .1 Actor cancels.  .2 Return to MSS step 2.  2b Event is fully booked.  .1 End of use case. |

|  |  |
| --- | --- |
| UC15 | Student can cancel an event |
| FR | FR15 |
| Actors | Student |
| Description | Student can cancel an event |
| Pre-Condition | Actor must be logged in |
| Main Success Scenario (MSS) | 1. Actor navigates to an event’s page. 2. Actor cancels. |
| Extensions | 2a. Actor is not already signed up.  .1 Actor signs up.  .2 Return to MSS step 2. |

|  |  |
| --- | --- |
| UC16 | Event organizer can scan a user’s qr code to check if they are signed up |
| FR | FR16 |
| Actors | * Event organizer * Student |
| Description | Event organizer can scan a user’s QR code to check if they are signed up |
| Pre-Condition | Actor must be logged in |
| Main Success Scenario (MSS) | 1. Actor 1 navigates to the QR code page. 2. Actor 2 navigates to their QR page or opens a camera. 3. Actor 2 scans Actor 1’s page. 4. The system of Actor 2 displays green. |
| Extensions | 4a. Actor 1 is not signed up.  .1 The system shows red.  .2 End of test case. |

|  |  |
| --- | --- |
| UC17 | Web application is installable |
| FR | FR17 |
| Actors | User |
| Description | The user can download the application |
| Main Success Scenario (MSS) | 1. Actor opens web application in a browser. 2. Actor attempts to install the application. 3. The system adds a shortcut icon to their device. |
| Extensions | 2a. The device of the actor isn’t supported.  .1 The use case is not applicable.  .2 End of use case. |

|  |  |
| --- | --- |
| UC 18 | Students can make event suggestions |
| FR | FR18 |
| Actors | Student |
| Description | Students can make event suggestions, which can be accepted/denied by the event organizer |
| Pre-Condition | Actor must be logged in |
| Main Success Scenario (MSS) | 1. Actor navigates to suggestions page. 2. System prompts actor to input event information. 3. Actor fills in information. 4. System notifies the event organizer that there is a suggestion. |
| Extensions | 3a Actor provides no information.  .1 System complains that there is no information.  .2 Return to MSS step 3. |

|  |  |
| --- | --- |
| UC 19 | Event organizer can accept event suggestion |
| FR | FR19 |
| Actors | Event organizer |
| Description | Event organizer can accept event suggestions made by students |
| Pre-Condition | Actor is logged in and there is at least one suggestion |
| Main Success Scenario (MSS) | 1. Actor navigates to suggestions page. 2. Actor chooses a suggestion. 3. Actor accepts suggestion. 4. System shows an event creation page with filled in partial information. 5. Actor fills in remaining information |
| Extensions | 3b Actor denies suggestion.  .1 End of test case. |

|  |  |
| --- | --- |
| UC 20 | Event organizer can broadcast messages |
| FR | FR20 |
| Actors | Event organizer |
| Description | Event organizer can send notifications and emails through the interface |
| Pre-Condition | Actor is logged in |
| Main Success Scenario (MSS) | 1. Actor navigates to messages page. 2. Actor fills in the message. 3. System broadcasts the message. |

Appendix

The following two appendices (A and B) consist of images of the desktop and web applications. They aim to provide insight into the availability of the features and the design and to facilitate the visual perception of the project before it is finished.

Appendix A - Desktop:

A screenshot of a computer

Description automatically generatedA screenshot of a computer

Description automatically generated with medium confidence A screenshot of a computer

Description automatically generated A screenshot of a computer

Description automatically generated

Appendix B - Web

A screenshot of a phone

Description automatically generated with low confidence A screenshot of a computer program

Description automatically generated with low confidence A picture containing text, screenshot, yellow, font

Description automatically generated

A picture containing screenshot, multimedia software, graphics software

Description automatically generated