Software RequirementSpecification

for “Event.io” project

**Version #1.1**

**Date17/02/2020**

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# Revisions

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Primary Author(s)** | **Description of Version** | **Date Completed** |
| 1.1 | Vlad Hordiychuk | That is the first prototype of SRS, UML, IR for the project to represent our idea, vision of the project and validate all the data before the begining of implemention | 17/02/2020 |

# **Review & Approval**

**Project Plan Approval History**

|  |  |  |  |
| --- | --- | --- | --- |
| **Approving Party** | **Version Approved** | **Signature** | **Date** |
| **Vlad Hordiychuk** | 1.1 |  | 17/02 |
| **Yaroslav Voitovych** | 1.1 |  | 17/02 |
| **Lev Nakonechnyy** | 1.1 |  | 17/02 |
| **Mentor** |  |  | 17/02 |

**Project Plan Review History**

|  |  |  |  |
| --- | --- | --- | --- |
| **Reviewer** | **Version Reviewed** | **Signature** | **Date** |
| **Authority 1** |  |  |  |
| **Authority n** |  |  |  |
| **Agent** |  |  |  |
| **Stakeholder 1** |  |  |  |
| **Stakeholder n** |  |  |  |
| **Etc.** |  |  |  |

[Review & Approval](#_h6mxi5w4vyo)

[Introduction](#_jn4ohz2ddxi8)

[Overview (Executive Summary)](#_j6e3tv5bqnk2)

[Deliverables](#_ukchz6zejoi9)

[Assumptions and Constraints](#_h9ktxe5d1aey)

[Reference Materials](#_wgi0oo3kv17y)

[Definitions and Acronyms](#_tl81xin4l9ac)

[Management Structure](#_7sib9rg6d92o)

[Project Lifecycle](#_17dp8vu)

[Project Organization](#_fwuo3dx67143)

[External Interfaces](#_rysz8sg8j751)

[Internal Structure](#_q9xwesqnet68)

[Roles and Responsibilities](#_35nkun2)

[Communication](#_44sinio)

[Risk and Asset Management](#_g6x9gsdj9m4o)

[Startup](#_ifxju2jfako2)

[Closeout](#_y4wcg0vguau0)

[Planning and Control](#_mc8pdwag09a8)

[Estimate](#_gi5s4wompxmm)

[Estimation Process](#_3qqafklzqtuo)

[Resource Identification](#_jd9hp9k4w51)

[Staff](#_foji7w5udbt7)

[Time](#_wr9nat5lzi79)

[Materials](#_jierqpvx3pn5)

[Resource Allocation](#_fuza2qvehmgy)

[Milestones](#_b2n4njnrxakb)

[Tracking and Control](#_4n1qu3990iyj)

[Technical Process](#_9ocbzexmi6ma)

[Engineering](#_nlpua2fpf28v)

[Environment](#_32hioqz)

[Methods, Tools and Techniques](#_qs6dkzks52kt)

[Technology](#_28p1z6dd0hjx)

[Environment](#_lhwog09st2ij)

[Supporting Plans](#_i4snjndaowfp)

[Configuration Management](#_oysk46jgnfm)

[Quality Assurance](#_cme376xfkpoc)

[Testing](#_aqcq1jll5t03)

[Deployment](#_c2jzj1dbezec)

[Integration](#_epjmmiahz5tw)

[Procurement](#_2owt3orfmmr)

[Product Acceptance](#_b3gq8smrk98z)

# Introduction

## Overview (Executive Summary)

This project is being created for our university subject “Program Engineering”. The main purpose is to create such web service which will solve one of the most important issues in our university - there is no centralised source of information, especially when it comes to events. Event.io will help students of LNU to find out how they can actively use their time not only out of the university but also inside it. Our main users are students, and all related to university people.

## Deliverables

At the end of the product development end-users will receive web service itself, source code, XML documentation, project presentation, SRS, UML diagrams. ER diagram.

## Assumptions and Constraints

Project Schedule must be 15 weeks or less. Man-Hours must be 100 hours or less. Must use “.NET CORE 3 ASP.NET”. All this kind of stuff affects the schedule and the scope of the work you can complete in the semester.

## Reference Materials

* [Parcehub](https://www.parsehub.com/docs/ref/api/v2/?javascript#introduction)
* [.NET CORE 3 ASP.NET](https://docs.microsoft.com/en-us/aspnet/core/web-api/?view=aspnetcore-3.1)
* [React](https://uk.reactjs.org/docs/getting-started.html)
* [ER diagram](https://drive.google.com/open?id=1zfsfW-uQxkhsq1cimaEwvx4z6N_yxi2z)
* [Redux](https://redux.js.org/introduction/getting-started/)
* [Redux Saga](https://redux-saga.js.org/docs/introduction/BeginnerTutorial.html)
* [MS SQL](https://docs.microsoft.com/en-us/sql/?view=sql-server-ver15)
* [UML Use case diagram](https://drive.google.com/file/d/1NHw1sBVNKF6nrB6zwPycpfy1k2QoZEpS/view?usp=sharing)
* Might be added more

## Definitions and Acronyms

Each section is denoted by the title and ordinal number, each subsection is denoted by the title and ordinal number of the main section with the ordinal subsection identifier.

All the important points will be highlighted in the following way: important information.

# **Management Structure**

## **Project Lifecycle**

Our project follows basic lifecycle:

* initialisation
* planning
* implementation
* testing and mentoring
* closing

The agile methodology will be used as the prior one.

## **Project Organization**

LNU university, PMI-35 group.

### **External Interfaces**

Our main external interface (stakeholder) is Galamaga, all team members, students of LNU.

### **Internal Structure**

#### **2.2.2.1 Roles and Responsibilities**

|  |  |
| --- | --- |
| **Role** | **Responsibility** |
| Project Manager |  |
| Planning and Tracking Lead |  |
| Requirements Lead |  |
| Quality Assurance Lead |  |
| Design Lead |  |
| Implementation Lead |  |
| Development Engineer |  |
| QA Engineer |  |

#### 

## **Communication**

All basic communication is located at Telegram group, GitHub project, orally on meetings.

## **Risk and Asset Management**

The greatest risk is not to pass an examination on this Subject)

## **Startup**

All steps will be represented on the scrum board on the GitHub project

## **Closeout**

# **Planning and Control**

## **Estimate**

All info about estimation will be represented on the scrum board on the Github project. All estimations regarding time will be defined on previous experience (other projects) and according to the current project.

### **Estimation Process**

Every teammate estimates his own tasks and registers it n GitHub. Time tracking will be done as well.

## **Resource Identification**

### **Staff**

Our team is our stuff resource. No freelance will be added to the team during project lifecycle.

### **Time**

Only time constraint is 15 weeks till the end of the semester.

### **Material**

No physical materials needed.

schedule of all the faculties of the university is needed.

## **Resource Allocation**

All resource allocation will be available in external documents.

### **Milestones**

A milestone is a marker in a project that signifies a change or stage in development. All milestones will be created in an additional document.

## **Tracking and Control**

All tracking will be on githab project and google sheet which will be provided by the mentor.

# **Technical Process**

## **Engineering**

### **Environment**

Our project will be running on “Google Chrome”. Project data will be affected by outside factors such as:

* Websites from which event data will be collected.
* Users who will add data about upcoming events

### **Methods, Tools and Techniques**

IDE: VS Code, Visual Studio Community, SQL management studio

Browser: Google Chrome 80.0.3987.100 and higher.

## **Technology**

* Parcehub
* .NET CORE 3 ASP.NET
* React
* Redux
* Redux Saga
* MS SQL
* HTML5
* CSS3

### 

# **Supporting Plans**

## **Configuration Management**

All project management will be on Github.

## **Quality Assurance**

All QA will be made by all team members. All commits to the main branch must be approved by each member.

## **Testing**

All functions, the method will be covered by a unit test. Tests will be written not only by the person responsible for function but also other members

## **Deployment**

No special instructions

## **Integration**

No integration

## **Procurement**

No procurement needed

## **Product Acceptance**

The project will be done after tutor acceptance.