**Project Plan**

**Let’s Keep in Touch**

*LKiT*

|  |
| --- |
| **Date : 10th of February 2024** |
| **Version : 2.0** |
| **State : Final version** |
| **Author : Piotr Cieślak** |

Contents

[1. Project assignment 3](#_Toc158593224)

[1.1 Current situation/Context 3](#_Toc158593225)

[1.2 Problem description 3](#_Toc158593226)

[1.3 Goal of the project 3](#_Toc158593227)

[1.4 Strategy 3](#_Toc158593228)

[1.5 Deliverables 3](#_Toc158593229)

[1.6 Non-deliverables 3](#_Toc158593230)

[2. Project organisation 4](#_Toc158593231)

[2.1 Stakeholders and team members 4](#_Toc158593232)

[3. Activities and time plan 5](#_Toc158593233)

[3.1 Phases of the project 5](#_Toc158593234)

[3.2 Time plan and milestones 5](#_Toc158593235)

[4. Testing strategy and configuration management 6](#_Toc158593236)

[4.1 Testing strategies 6](#_Toc158593237)

[5. Finances and risk 7](#_Toc158593238)

[5.1 Risk and mitigation 7](#_Toc158593239)

# Project assignment

## Current situation/Context

Let’s Keep in Touch is a social media platform that want to compete with bigger websites like Twitter. Let’s Keep in Touch (later in the document may be referred as “LKiT”) is a social media that allows it users to create posts, so that their friends can know what is happening in their life and they can comment on it. Now LKiT has very sluggish system and they want build a new one.

## Problem description

The primary problems identified by the client are the system's sluggish performance, unreliability, and the lack of moderation and user commenting functionality. These issues hinder the user experience and limit the platform's ability to compete effectively with other social media platforms.

## Goal of the project

The goal is to make “Let’s Keep in Touch” a competitive platform with this application. The goal is to create a website for users and windows application for administrating the website. New and reliable application will attract new users and get the company and its income bigger. This situation will make the company’s financial situation better and open to expand their social media impact.

## Strategy

I am going to use iterative approach to implement one functionality and if one thing is ready and working, then I can work on another point from the MoSCoW list.

## Deliverables

Products to be delivered:

* Windows Forms Application
* ASP.NET Razor Pages web application
* Database
* Documents
  + Ideation Document
  + Project plan
  + User requirements specification
  + Test plan
  + Test report

## Non-deliverables

What will not be delivered:

* Any hardware
* Any post-release support or maintaining

# Project organisation

## Stakeholders and team members

Project leader and representative of software development team: Piotr Cieślak (contact: [p.cieslak@student.fontys.nl](mailto:p.cieslak@student.fontys.nl) )

LetsKeepTouch representative: Benjamin Franklin (contact: [b.franklin@letskeepintough.com](mailto:b.franklin@letskeepintough.com) )

# Activities and time plan

## Phases of the project

There are four phases of the project each of the sprints consists of following steps:

• Analyze

• Design

• Implement

• Test

## Time plan and milestones

Milestones:

* Ideation document: 14th September 2023
  + Creating Git repository
* Project Plan and User Requirements Specifications: 22nd September 2023
* Intermediate Version Week 5: 6th October 2023
  + Creating back-end functionalities related to user management
  + Login and Registration functionalities
  + First version of website and windows application
  + Creating Database
  + Testing functionalities that already exist
  + Updating Documentation
* Intermediate Version Week 6: 13th October 2023
  + Creating full User Interface for user-related functionalities
  + Creating Test Plan and Test Report documents
  + Testing functionalities that already exist
  + Updating Documentation
* Intermediate Version Week 7: 20th October 2023
  + Creating posts-related functionalities
  + Testing functionalities that already exist
  + Updating Documentation
* Intermediate Version Week 10: 17th November 2023
  + Creating User Interface for post functionalities
  + Creating backend part of report-related functionalities
  + Testing functionalities that already exist
  + Updating Documentation
* Intermediate Version Week 11: 24th November 2023
  + Creating User interface for report-related functionalities
  + Testing functionalities that already exist
  + Updating Documentation
* Intermediate Version Week 12: 1st December
  + Improving user interfaces
  + Creating additional unit tests
  + Testing functionalities that already exist
  + Updating Documentation
* Final Version Week 16: 12th January 2024
  + Applying final feedback
  + Cleaning code
  + Creating more sophisticated algorithms
  + Final testing
  + Updating Documentation

# Testing strategy and configuration management

## Testing strategies

* Unit Tests - testing software part of the project. Unit tests are automated tests or manual tests, written and run by software developers to ensure that a section of an application (known as the "unit") meets the requirements.
* Integration testing - testing Database component working with software part of the project. Integration testing is a testing where components of the software solution are gradually integrated and then tested as a unified group. In this project it relates to testing whether the application integrates correctly with SQL database.
* Security testing – testing for security vulnerabilities. Security testing focuses on recognizing solution’s security vulnerabilities. In this project security testing focuses on trying to access the application or to drop the database with SQL injections. Security testing in this project is also about trying to expose fragile data, like passwords.
* Black box testing – testing use cases in use without looking into the code. This method is about testing use cases using live demo – from the user’s perspective.
* White box testing – looking into the code to make sure the code is efficient. This method focuses on indicating whether the solution’s code and structure is clear and properly created.

# Finances and risk

## Risk and mitigation

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Risk** | **Prevention activities** | **Mitigation activities** |
| 1. Poor Time Estimation | Underestimating the time required for project tasks, leading to delays and missed deadlines | Use realistic time management and expectations, do not take too much tasks for one sprint. Regularly track project progress against the planned schedule and make adjustments as necessary | Try to address issues, where the time estimation failed and try to catch up on the overdue tasks. Reschedule incoming tasks and make adjustments knowing already occurred problems. |
| 1. Communication breakdowns with tutors | Lack of important feedback and worse grade. | Keep track of important meetings, particularly assessment meetings. Try to reach the tutors as often as possible. Update the tutors about the project’s progress. | Contact the tutors informing them about the current situation and progress that has been made during the communication breakdown. |
| 1. Human factors like lack of motivation, sickness of key people | Inability to make a progress in the project | Address any alarming situations like bad health or sense of lack of motivation. | Contact the tutors informing about the issue. Contact proper people, like doctors etc. Make adjustments to task planning and incoming period. |
| 1. External software/parties failures | Inability to use external parts of the project like Fontys’ database, due to what, inability to test and develop parts of the project that requires this party. | Try to plan and build the project the way, you can use a substitute in order to not be paralyzed due to failures. | Use the substitute you have use prepared for this situation. |