**Project Plan**

***Parking Software***

*Sioux*

|  |
| --- |
| **Date : 04.09.2020** |
| **Version : 1.0** |
| **State : Start** |
| **Author : S3-CB03 Group 2** |

#### Version history

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Version** | **Date** | **Author(s)** | **Changes** | **State** |
| 1.0 | 04.09.2020 | **S3-CB03 Group 2** | - | Start |
|  |  |  |  |  |
|  |  |  |  |  |

Contents

[1. Project assignment 3](#_Toc50551206)

[1.1 Context 3](#_Toc50551207)

[1.2 Goal of the project 3](#_Toc50551208)

[1.3 Scope and preconditions 3](#_Toc50551209)

[1.4 Strategy 3](#_Toc50551210)

[1.5 Research questions 3](#_Toc50551211)

[1.6 End products 3](#_Toc50551212)

[2. Project organisation 5](#_Toc50551213)

[2.1 Stakeholders and team members 5](#_Toc50551214)

[2.2 Communication 5](#_Toc50551215)

[3. Activities and time plan 6](#_Toc50551216)

[3.1 Phases of the project / Time plan & Milestones 6](#_Toc50551217)

[4. Testing strategy and configuration management 7](#_Toc50551218)

[4.1 Testing strategy 7](#_Toc50551219)

[4.2 Test environment and required resources 7](#_Toc50551220)

[4.3 Configuration management 7](#_Toc50551221)

[5. Risks 8](#_Toc50551222)

[5.1 Risk and mitigation 8](#_Toc50551223)

# Project assignment

## Context

Sioux Technologies is a global technology partner that supports high-tech companies. Due to the company’s strength, being a unique combination of high-quality competences in software, mathware, mechatronics, electronics and assembly, they have the expertise to contribute to the success of high-tech products and production systems..

Our team of software engineering students has been given the task to develop a car parking softwarem system for them.

## Goal of the project

The company plans to ease the process of finding a parking spot for incoming visitors. In order to accomplish this, they intend to use the help of a software system.

In order to solve this problem for them, our goal is to develop a system, which allows a camera to scan the license plate of an incoming visitor’s car and then send an sms to the driver (as long as they have registered in advance) to instruct them how to find the parking spot allocated to them.

The success of our project would likely have a positive impact on Sioux’s organizational system and speed up the workflow, while minimizing customer frustrations.

## Scope and preconditions

|  |  |
| --- | --- |
| **Inside scope:** | **Outside scope:** |
| 1. Desktop application to schedule appointments | 1. A system which gives information regarding the free/taken parking spots (provided by Sioux) |
| 1. An interface for the camera recognition technology |  |
| 1. Create a database which stores all the information |  |
| 1. Communication between the system and the visitor |  |

## Strategy

*The working strategy we are going to use for this project is Agile Scrum.*

## Research questions

* *DOT Framework*
* *Library research*
* *SMS Gateway*
* *Java REST API*

## End products

* *A desktop application used to schedule appointments and register information about visitors*
* *A database used to store all relevant information used by the system*
* *A software solution which enables the camera to recognize and read license plates*
* *An interface which sends the visitor a text message with their allocated parking spot and directions to reach it*



# Project organisation

## Stakeholders and team members

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Abbreviation** | **Role and functions** | **Availability** |
| *Colin Lambrechts* |  | *Product Owner* |  |
| *Jan Willem Van Silfhout* |  | *Product Owner* |  |
| *Xuemei Pu* |  | *Project Leader* |  |
| *Aleksandar Georgiev* |  | *Developer* |  |
| *Aleksandar Popov* |  | *Developer* |  |
| *Velimir Vukasinovic* |  | *Developer/Technical Leader* |  |
| *Branimir Sandalski* |  | *Developer/Documentation* |  |
| *Kaloyan Aleksiev* |  | *Developer/SCRUM master* |  |

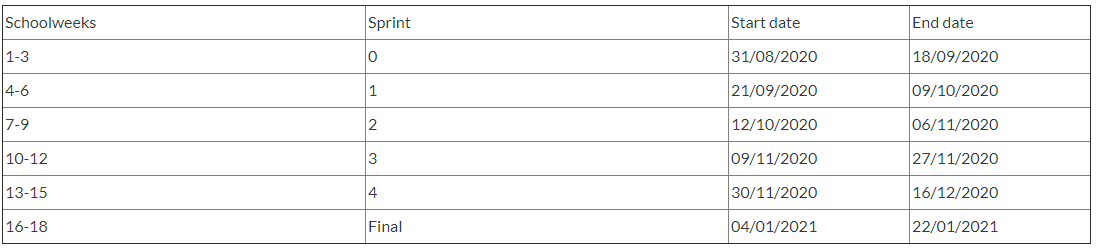
## Communication

*Communication is going to take place in person whenever possible and also through MS Teams and Discord.*

* *Weekly meetings with the stakeholders*
* *Multiple team meetings during the week*

# Activities and time plan

## Phases of the project / Time plan & Milestones



* Sprint 0 – Project Plan + Database
* Sprint 1 – Application for registering appointments
* Sprint 2
* Sprint 3
* Sprint 4

# Testing strategy and configuration management

## Testing strategy

*A dedicated test person is going to test all new features at the end of every sprint.*

## Test environment and required resources

*<< Describe the test environment. E.g., do you envision a DTAP (Development, Testing, Acceptance, Production) environment. Can you make use of a CI/CD environment or will you develop your own?*

*It often helps to use a picture to visualize the test environment.*

*If you already know, describe which resources are required for realization and testing. Think of hardware, cloud environments and specific tooling required for development and testing.*

*>>*

## Configuration management

*<< Describe the project approach with respect to version management. This might include things like tooling, branching strategy, promotion-, release- and baseline strategy.*

*Also, when relevant, think of a mechanism to deal with change requests and problem reports.>>*

# Risks

## Risk and mitigation

|  |  |  |
| --- | --- | --- |
| **Risk** | **Prevention activities** | **Mitigation activities** |
| 1. Miscommunication between the client and the software team | Regular meetings |  |
| 1. Miscommunication between the project leader and the software team | Regular meetings |  |