**Project Plan**

***Parking Software***

*Sioux*

<<

*This template can be used for all projects, especially software engineering projects. Chapters or parts that are not applicable can be removed.*

*Text in italic is background information and must be removed in the final version of your project plan.*

*Note that this is a template and can be changed for own purposes, e.g. you can adapt the layout to the layouts as used at the company of your internship.*

*For your project name, think of a name that highlights the most relevant aspect of your project, and also specify whether it is about graduation internship or third year internship.*

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| --- |
| **Date : 04.09.2020** |
| **Version : 1.0** |
| **State :** |
| **Author : IBI Student Group Members** |

#### Version history

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| 1.0 | 04.09.2020 | IBI Student Group | - | Started |
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**Distribution**

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# Project assignment

## Context

*Sioux is a software company. IBI has been hired by them in order to create a parking system.*

## Goal of the project

*The current issue is that the PR person in Sioux has to take care of providing every visitor with a free parking spot alongside scheduling their appointments. In order to fix it, IBI has been presented with the challenge to automate the process of finding a free parking spot and providing the appropriate information to each visitor.*

## 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

*<<*

*Describe the research questions that are most relevant to your project. For each research question, describe the approach and/or methodology. Use the Dot Framework to specify strategies and methods - see* [*http://www.ictresearchmethods.nl*](http://www.ictresearchmethods.nl) *for details.*

*Note that research is not only part of the intial phases (like analysis) of the project, but runs throughout the whole project. E.g., in the realization phases, you will probably do research in the Workshop and Lab context.*

*Also realize that during the project your research questions may change, and that new ones will come up. That normal for any project ☺, and is not a problem as long as you involve the right stakeholders, and keep your deliverables updated and in sync.*

*>>*

## 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

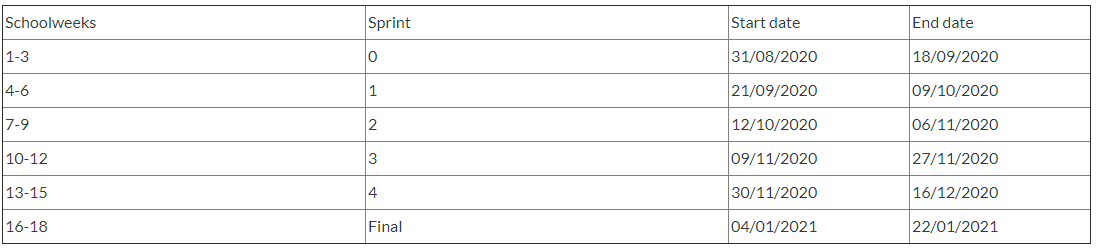
|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Abbreviation** | **Role and functions** | **Availability** |
| *Colin Lambrechts* |  | *Product Owner* |  |
| *Jan Willem Van Silfhout* |  | *Product Owner* |  |
| *Xuemei Pu* |  | *Project Leader* |  |
| *Aleksandar Georgiev* |  | *Developer* |  |
| *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.*

# Activities and time plan

## Phases of the project / Time plan & Milestones



# 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 |  |