*Business cases can be adapted for any type of business project. This template is designed as an outline to help you explain the benefits and risks of your project to key stakeholders.*

**DATE: 15-03-2023**

**PROJECT NAME:** SMART Bumper Dashboard

**SUBMITTED BY:** Mustafa Noori, Niklas Thürnau, Ondra Hruby, Stefan Vasile

**PROJECT APPROVED BY: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**DATE APPROVED: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

### Executive Summary:

* Provide a concise overview of the problem
* Briefly explain how your project will address and solve the problem

Truck drivers are regularly using bumpers to assist in parking. Using these bumpers often leads to damages in the docks while it not possible to track who did cause the damages during parking. Currently, there is not good overview available of which dock is occupied.

Create a Dashboard that will connect with already created smart bumper prototypes and help visualize the real-time data of the truck drivers docking in and out. The prototype includes sensors that help the driver dock in properly without damaging the parking docks and signal that the driver is docked (dock is unavailable) in or not (dock is available).

### Problem:

* What problem does your project address?
* Relate this problem to the goals or mission of the organization.

In the current situation, it is difficult for logistics companies to have a good overview of which docks are currently occupied. Moreover, it is difficult to track how and when damage is done to the docks when trucks are loading/unloading. Often, damage is caused by truck drivers driving into the dock at a significant speed, as both the truck, trailer and dock come from different companies. This means that it is difficult to find out who is at fault over, so drivers often do not pay attention when docking.

To create a Dashboard where they will have an overview of the docks. Which will help them in docking in and out as well as the truck drivers will also know where to dock.

### Analysis:

* Provide any research or data you’ve collected.
* Use this space to explain who is on the project team.

**Project team**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Email** | **Project Role** | **Availability** |
| Niklas Thürnau | [n.thurnau@student.fontys.nl](mailto:n.thurnau@student.fontys.nl) | (Project Manager) | Business hours |
| Mustafa Noori | [m.noori@student.fontys.nl](mailto:m.noori@student.fontys.nl) | (Scrum Master) | Business hours |
| Ondra Hruby | [o.hruby@student.fontys.nl](mailto:o.hruby@student.fontys.nl) | (Lead Developer) | Business hours |
| Stefan Vasile | [s.vasile@student.fontys.nl](mailto:s.vasile@student.fontys.nl) | (Test Developer) | Business hours |

**Collected data/Research**

* We are free to use any stack/frameworks we want, With the condition that they are big and supported.
* House style does not matter, no requirements on that.
* A team has concluded that common ground can found within the usage of Power BI for the Dashboard with MySQL as the database.

### Finances:

* Explain how much it will cost to conduct the project.
* If applicable, show projections for profits from your project.

No direct costs will be created with this project.

Cost Reduction: the project hours are free. It is an open-source solution, therefore, there will be no license fees.

### Possible Options:

* Outline the possible solutions to the problem.

Building a dashboard to increase the trackability of trucks and their parking.

An overview of all docks.

### Risks:

* List any risks in your project and how you will address these
* Description, Risk owner, probability, impact, countermeasure)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Risk Owner** | **Probability(Very Low – Low – Medium – High - Very High)** | **Impact (Very Low – Low – Medium- High - Very High)** | **Counter measure** |
| Team member becomes unavailable for extended time | SOFA team | Low | High | Reduce scope of project |
| Corrupted data | Green Tech Lab | Medium (?) | Medium | Backups |
| Customer does not communicate | Green Tech Lab | Very Low | High | Come in person; Communication plan |
| Project Scope is not clear | All Parties | Low | Very High | Ask enough questions; The scope needs to be approved by all parties |
| Scope Changes | SOFA Team | High | High | Change request management |
| Previous work on bumper project cannot be used | Green Tech Lab | Low | High | Use dummy data for dashboard |
|  |  |  |  |  |

### Recommendation:

* Show why the project you selected is the best option.
* Include any risks in your project and how you will address these.

This project that has been selected is most in line with the project members' interests, experience, and software orientation. It gives freedom of choice for the technologies and still offers something new and interesting. The group thinks that it's a more suitable project in terms of the given time frame.

For the risks, the actual thought process might be an issue and the theory behind the data.