**Phase plan**

1. **Planning Phase:**

[**https://www.youtube.com/watch?v=ZPnV9\_OWkbg&ab\_channel=RobertNields**](https://www.youtube.com/watch?v=ZPnV9_OWkbg&ab_channel=RobertNields)

During the Planning Phase, our team collected information from the client and its company to better understand the task at hand and define its scope. We discussed the chances of success and ways we could increase it.

* The problem is defined and understood

The goal of this project was to create an application for a motorhome renting company, that is able to help employees with the renting process from start to finish. Currently there is no such system in use, leaving the company slow and inefficient.

* The scope is defined

The application should be able to help the employees to create motorhome bookings, including the calculation of initial and final renting fees. All necessary information about the bookings has to be saved. The employees should be able to create and manipulate these bookings in a user-friendly manner.

* Feasibility of success and ways to increase it

In order to finish the project in the given time, our developer team of four decided to divide into smaller two person groups, to work on different parts of the project simultaneously and discuss the progress after short 1-2-day development cycles. This way, we could be more efficient with our time and use the individual skills of our team members on a higher level.

1. **Analysis Phase:**

[**https://www.youtube.com/watch?v=61WuIZIG5N0&ab\_channel=RobertNields**](https://www.youtube.com/watch?v=61WuIZIG5N0&ab_channel=RobertNields)

In the Analysis Phase, we gathered and modelled all the business requirements to complete our understanding of the project.

* Requirement gathering

In this step we collected information in regard to the business part.

* Data and process modeling

According to the gathered information, we created the business diagrams and analysis.

* Determination of Development Strategies

1. **Design Phase:**

<https://www.youtube.com/watch?v=yjxnvcZ7dlc&ab_channel=RobertNields>

In this phase, we designed the physical attributes of the system according to the system requirements, collected in the previous phases.

* Interface design

Designing the interface was a critical step in the development, because of its important role in communication between user and software. The application needed to offer all the functions requested by the client, while remaining easy to use.

* Data design

We designed the database structure, accordingly to the requirements, by creating the diagrams of the entities and their relationships, while ensuring normalization.

* System architecture

It was important to develop a scalable system structure since new features were already planned for later adaptations.

1. **Development**
2. **Testing**
3. **Implementation**
4. **Maintenance:**