Bicycle Rental Accounting System

*Explanatory Notes*

SENER Kaan B.

HEISKANEN Joonatan P.

NESTEROV Roman A.

**Contents**

[1. Task Statement 3](#_Toc437900356)

[2. Responsibility Matrix for Group Members 4](#_Toc437900357)

[3. Application Functions and Features 5](#_Toc437900358)

[3.1. Use cases 5](#_Toc437900359)

[3.2. User Interface 5](#_Toc437900360)

[4. Application Structural Description 6](#_Toc437900361)

[4.1. Data Structure Description 6](#_Toc437900362)

[4.2. Application Modules Description 6](#_Toc437900363)

[4.3. CRUD Queries Implementation 6](#_Toc437900364)

[4.4. Statistical Queries Implementation 6](#_Toc437900365)

[5. Overall Result Characteristics 7](#_Toc437900366)

[References 8](#_Toc437900367)

[Appendix A. Something useful code extracts (SQL or PHP)… 9](#_Toc437900368)

[6. Conclusion 10](#_Toc437900369)

# Task Statement

This report contains a thorough description to the process of development process of the application “Bicycle Rental Accounting System”.

The accounting system is aimed at providing the following functionalities:….

….

The “Bicycle Rental Accounting System” is to be implemented in the form of client web application employing the following instruments:…

….

The database for the accounting system is to be implemented using the following database designing tools and instruments:…

…

# Responsibility Matrix for Group Members

This section indicates the main generic activities taken place while developing the accounting system and the contribution areas of each group member (see Table 1).

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Activity Name 1 | Activity Name 1 | Activity Name 1 | Activity Name 1 | Activity Name 1 | … |
| SENER K. |  |  |  |  |  |  |
| HEISKANEN J. |  | X |  |  |  |  |
| NESTEROV R. |  |  | X |  | X |  |

# Application Functions and Features

This section provides a description to a functions implemented in the form of use cases and an insight to the inner organization of the user interface

## Use cases

*Use Case 1: ….*

*….*

*Use Case 2: ….*

*…*

## User Interface

The organisation of modules and relations between them, instruments used for UI design and development, screenshot examples illustrating user interface structure….

….

# Application Structural Description

This section provides a description to the process of development the interaction between the client application and the database: how the database organized, what instruments are used to develop the database, the queries..

## Data Structure Description

The database diagram including brief description of each table of a database as well as the semantics of the relationships between them

…

## Application Modules Description

Brief Hierarchical modules description and how the connections are provided. What are the puproses of each module briefly.

## CRUD Queries Implementation

This section should briefly discover how the basic operation with data are implemented.

…

## Statistical Queries Implementation

This section briefly discuss how these queries are done and what sort of stat is provided…

…

# Overall Result Characteristics

Advantages and possible bottlenecks description as well possible ways to eliminate them in future, for example.

…

# Conclusion

# References

# Appendix A. Something useful code extracts (SQL or PHP)…