**Software Requirements Specification**

**PNP Camp Crame reservation facility office**

**Quezon City**

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**1. Introduction**

**1.1 Purpose**

The purpose of Software Requirement Specification (SRS) is to deliver a detailed explanation of the system requirements, user specifications, and functionalities to implement the PNP Camp Crame Facility Reservation System. In this way, the team and the client will have a clear understanding about the project objectives.

**1.2 Document Conventions**

The team uses a simple format in creating this SRS. Bold font style was used on highlighted topics, while the rest of document was transcribed using the standard font, New Times Roman.

**Acronym and Abbreviations:**

* SRS: Software Requirement Specification
* SSU: Service Support Unit
* HSS: Headquarters Support Service
* PNP- Philippine National Police

**1.3 Intended Audience and Reading Suggestions**

The target readers of the SRS document are the following entities:

System Developers – pertains to the developers of this project. This may serve as their guide and reference as it records all pertinent information about the system.

Documenter – this may serve as their guide in creating user manual, flow charts and other documents that are necessary for this project.

Testers – they may use this document as their reference in testing the system.

Users – pertains to the user of this system. This document may serve as their guide in navigating the system to fully understand the flow of the process.

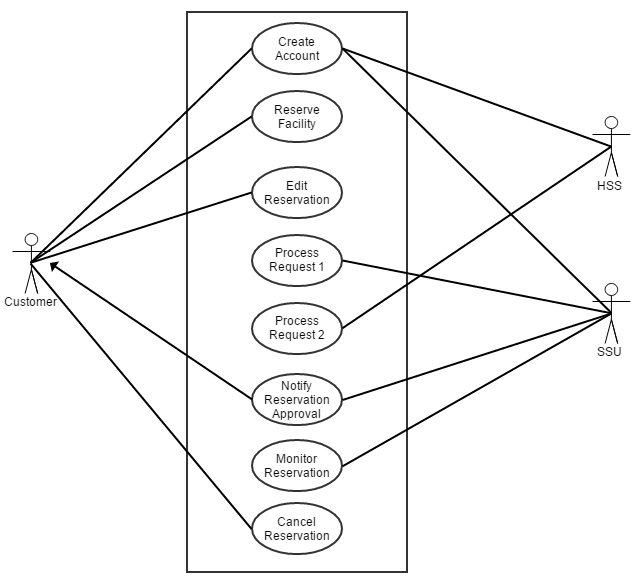
**1.4 Scope**

The PNP Camp Crame Facility Reservation System aims to expedite the process of reserving a certain facility and provide a simplified yet user-friendly approach for both existing and potential customers. The system will show up-to-date availability of the facility and will handle cancellation, booking and modification. This will give PNP facility customers the ability to reserve a facility anytime and anywhere. It will also minimize the workload of the facility management staffs, as all data will be automated and centralized.

**2. Overall Description**

**2.1 Product Perspective**

The PNP Camp Crame Facility Reservation System is an online reservation system that aims to improve the existing manual process in reserving facilities at the PNP Camp Crame Facility Reservation Office. This will enable its users to manage their reservation conveniently, as the process will be done online.

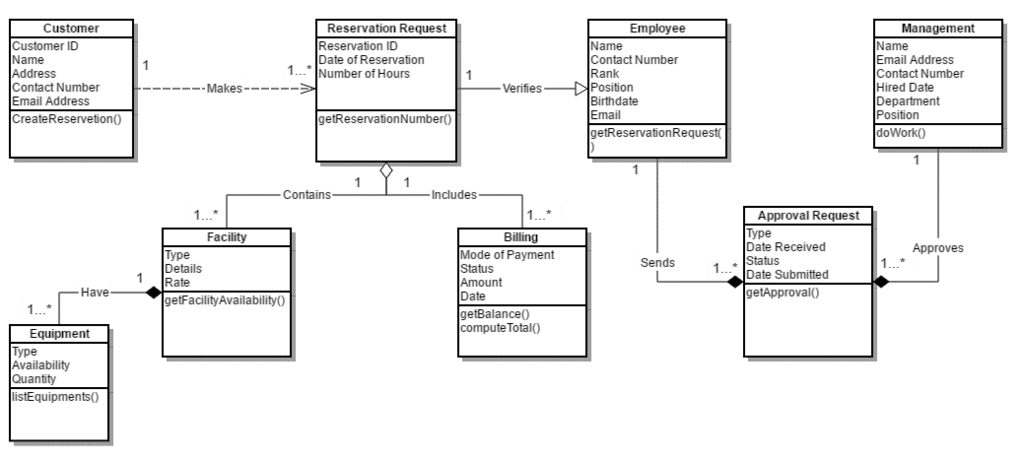


**2.2 Product Functions**

The PNP Camp Crame Facility Reservation System is developed to provide faster and reliable way of reserving a certain facility at the PNP Camp Crame. The target users of this system are the following:

1. Customers
2. HSS
3. SSU

Each user must have an account to be able to access the system.



**2.3 User Classes and Characteristics**

There are three users expected to utilize the PNP Camp Crame Facility Reservation System. Below are the target users and their respective activities.

|  |  |
| --- | --- |
| USER | Activities |
| Customer | \*Creates an account \*Views availability \*Reserves a facility \* Monitors the status of the reservation. \*Cancels a reservation |
| SSU | \*Creates an account \*Views availability \* Edits facility availability \*Reviews reservation |
| HSS | \*Creates an account \*Views availability \*Reviews reservation \* Approves/Declines reservation request |

**2.4 Operating Environment**

**OE\_1**: The PNP Camp Crame Facility Reservation System should be working with any web browsers. It is recommended but not necessary to use the latest version of the web browser for faster and reliable operation.

**OE\_2**: The PNP Camp Crame Facility Reservation System is developed to run on Windows, iOS, Linux.

**OE\_3**: The PNP Camp Crame Facility Reservation System can be accessed by SSU and HSS. Registered customers will be given an access to the system with certain restrictions.

**OE\_4**: Minimum hardware requirements: Dual Core 1.6GHz of faster. RAM: 1 gigabyte (GB) (32-bit) or 2 GB (64-bit).

**2.5 Design and Implementation Constraints**

Although the system is an upgraded method compared to current process of reserving a certain facility at the PNP Camp Crame, it is necessary for the system developers of this project to observe the guidelines provided by the clients.

* The system design must meet the standards provided by the client.
* System functionalities will be developed upon the approval of the client.
* The system uses PhpmyAdmin MySQL for the database.
* The system uses Yii2 (advance template) and Admin LTE (theme in backend) to build the system.

**2.6 User Documentation**

A written manual will be published to provide information and instruction on how to use this system. The user manual contains written guides and its related images so that readers will better understand the given instructions. A glossary section will be included to explain technical terms.

**2.7 Assumptions and Dependencies**

The PNP Camp Crame Facility Reservation System is best to navigate through PCs and Laptops. This maywork on mobile phones that have advance features i.e. IOS 8 and above, IOS Marshmallow and etc.

**3. External Interface Requirements**

**3.1 User Interfaces**

**3.2 Software Interfaces**

  - Windows 8 or higher

  - Internet Browser (Internet Explorer, Mozilla Firefox, Google Chrome.)

**3.3 Hardware Interfaces**

- Hardware - Minimum System Requirement

  - Processor - 2.4 GHZ processor speed

  - Memory - 128 MB RAM (256 MB recommended)

  - Disk Space - 80 GB

  - Display - 800 x 600 colors

**3.4 Communication Interfaces**

  1. Internet connection and a browser are required.

  2. HTTP/HTTPS protocol

**4. System Features**

**4.1.1. User Registration**

Each user is required to have an account to be able to manage the reservation online.

**4.1.2. Description/Priority**

Users can create an account by completing the online registration. The priority creating an account is high.

**4.1.3. Stimulus/Response Sequences**

*Stimulus*: User creates an account by completing the registration.

*Response*: The system will verify if the required information is valid i.e. email address and cell phone no. The system will store the information in the database and redirect the user to the reservation page.

**4.2.1. View Facility Availability**

Users can view availability of a certain facility upon logging in.

**4.2.2. Description/Priority**

Users can view availability of a certain facility upon logging in.

**4.2.3. Stimulus/Response Sequences (Admin)**

*Stimulus*: The admin reviews a certain reservation

*Response*: The system will display all pending reservation

*Stimulus*: The Admin approves/rejects the reservation in the calendar

*Response*: The system updates the information in the calendar. The reserved slot will be grayed out which indicates the slot as taken. If the reservation is rejected, the slot will still be available for reservation to other users.

**4.2.3. Stimulus/Response Sequences (Customer)**

*Stimulus*: Customer views availability.

*Response*: The system will display the calendar.

*Stimulus*: Customer selects a date to reserve.

*Response*: If the selected date is reserved, the system will not respond. If the date selected is available, the system will proceed to the reservation page to allow the user to complete the reservation.

**4.3.1. Users submit inquiries through contact page.**

Customers can contact the PNP Camp Crame Sports Complex if they have inquiries and questions that are not readily available to the facility reservation website. The website will obtain the name, email, subject of the question/inquiry, and the actual message. That information will be send and save to the website server and the website will notify the administrator about the customer inquiries and questions queues. The administrator will respond via email.

**4.3.2. Description/Priority**

  Customers may submit inquiries through contact page. Customers need to provide their name, contact number, email address and message to the Admin to complete the process. Those questions and inquiries of the customers that are not yet responded by the admin can have an effect to the time of customer’s reservation. Customers will wait for the respond via email before reserving facilities.

**4.3.3. Stimulus/Response Sequences**

*Stimulus*: User submits inquiries through contact page.

*Response*: The system will display all required fields that need to complete. If the provided information is not valid, the system will prompt the user to enter a valid data.

*Stimulus*: User enters valid data and submits inquiries.

*Response*: System submits data and prompts user that the inquiries are submitted.

**5. Other Nonfunctional Requirements**

**5.1 Performance Requirements**

-       The system should work on Should work on IE Mozilla Firefox Google chrome

-       The application should be flexible for future enhancements.

- Multiple connections to the system at the same time should not slow down the application to a large degree.

**5.2 Safety Requirements**

Customers will only be allowed to access certain features. The system will secure all outlets of each transaction that includes any confidential customer information. The system will automatically log out users after a certain period of inactivity.

**5.4 Software Quality Attributes**

**5.4.1 Security**

All users are required to have an account to be able to access The PNP Camp Crame Facility Reservation System. Users will be granted access to certain functionalities depending on their role.

**5.4.2 Reliability**

The system shall be a web-based application and has to be run from a web server.

**5.4.3 Scalability**

The online reservation system is designed to accommodate large number of users. Once the system implemented, it is expected to attract more customers since the process will become faster and more convenient.

**5.4.4 Availability**

Since this is an online system, reservation can be made anytime and anywhere.

**5.4.5 Responsiveness**

The performance shall depend upon hardware components of the users.

**5.5 Business Rules**

The use of The PNP Camp Crame Facility Reservation System should make way to a better, faster and reliable process of reserving a facility without neglecting the rules and regulations of the client. System designs and functionalities should meet the requirements of the client

**6. Other Requirements**

The team will require a facility reservation form sample from the PNP Camp Crame Facility Reservation Office. Sample request letter and approval letter should also be obtained from the client for reference purposes.