

1) Hotel Management System

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Software Requirement Specification (SRS) for
Hotel management system.

1) Introduction

1.1. Purpose of this document

This SRS defines the functional and non-functional requirements. It provides necessary details, stepwise working and information needed to make efficient & robust system.

1.2. Scope of this document

System must be able to perform

- > Online booking & reservation
- > Early check-in option & cost
- > Payment & Billing
- > Restaurant order management
- > Identity proof validation

1.3 Overview

Web application to enable users to use various services provided by the hotel.

2) General description

User must be able to register himself/herself with the application. Details of location, date, checkout date, number of people is entered during login.. User can also refer to reviews and read others experience to know more about the hotel.. If confirmed user can book hotel by paying certain amount/charges through ~~any~~ any payment gateway

3) Functional requirements

Reservation management

Allows user to reserve or cancel reservation, confirmation email & payment receipt. Avoid multiple booking for same room.

Room management

Display all do's and don'ts before booking assign rooms on arrival and update status.

Staff management

Record check in & check out times, weekly check of all staff by supervisor.

4) Interface requirement

Regional language option must be available, VR representation of each room. Data consistency is maintained.

5) Performance requirement

Response for any query must be less than 1 s and minimum 8GB RAM to ensure smooth functioning.

6) Design constraints

UI must be interactive and user friendly to increase engagement and user retained. Application cannot run on LINUX systems.

7) Non functional requirements.

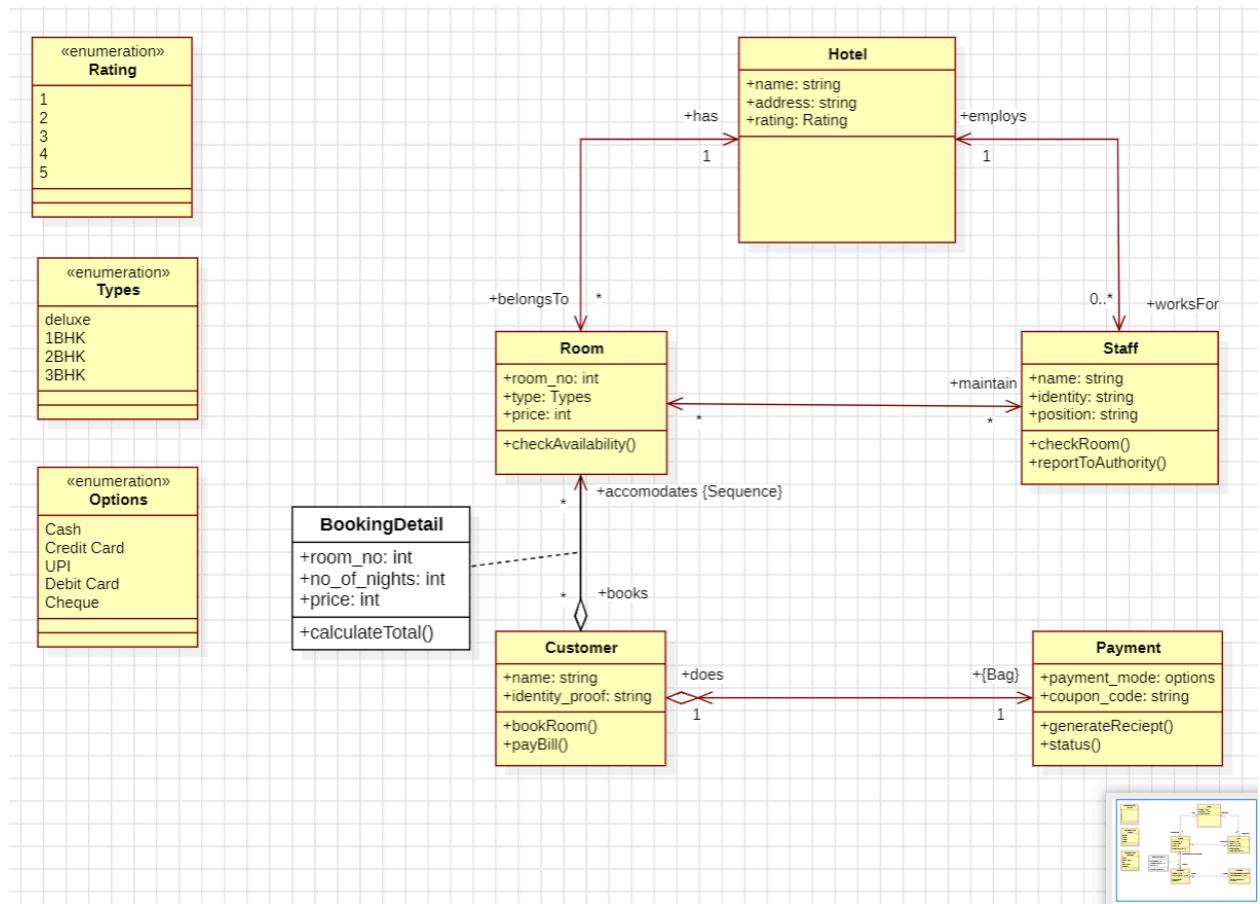
System must use RSA 2048 hashing for ~~dat~~ data security & must not be dependent ~~on~~ on one architecture. System must be able to process & handle 10000 users simultaneously if needed must scale up.

8) Preliminary schedule & Budget.

Project must be completed within 6 months & budget allocated is \$9600. If any changes made reserve budget used.

Budget split

Software development	\$ 3840
Hardware	\$ 1920
Licenses	\$ 960
Quality assurance	\$ 960
Project management	\$ 480
Documentation	\$ 480
Maintenance	\$ 960
Total	\$ 9600



2) Credit Card Processing System

Credit card processing system

1) Introduction

1.1 Purpose of this document

This SRS defines the functional and non-functional requirements. It specifies necessary details, stepwise working needed to create a efficient & robust system.

1.2 scope of the document

System must be able to perform

→ Seamless payments

~~Proper account management~~

→ Easy to use system

→ Monthly account statement generation

1.3 Overview

This system will be an embedded system that provides retailers with option to accept payment through credit card

2) General description

User must provide card to cashier if card has been enabled with tap functionality it can be tapped on Pos machine otherwise insert into slot / swipe & pin must be entered after checking amount. If money is debited receipt is generated else error.

3) Functional requirements

Seamless payments

Payment process is simple and doesn't require much technical knowledge

Easy to use system.

Payments must be easy, ~~be~~ just a tap is enough to do payments.

Monthly account statement generation

Track of all payments is kept and is accessed to generate card bill and send it to user.

4) Interface requirements

It should provide list of options, it must be clearly displayed on the screen and navigation must be easy.

5) Performance requirements

The response for query must have time limit, if exceeded must timeout and return failure. Minimum 2GB RAM to ensure smooth experience.

6) Design constraint.

User friendly UI which is responsive, international credit cards cannot be processed.

7) Non functional Requirements

User pin must not be stored, strong hash function must be used to compare pins as it involves real money. Payment clashes must not be there.

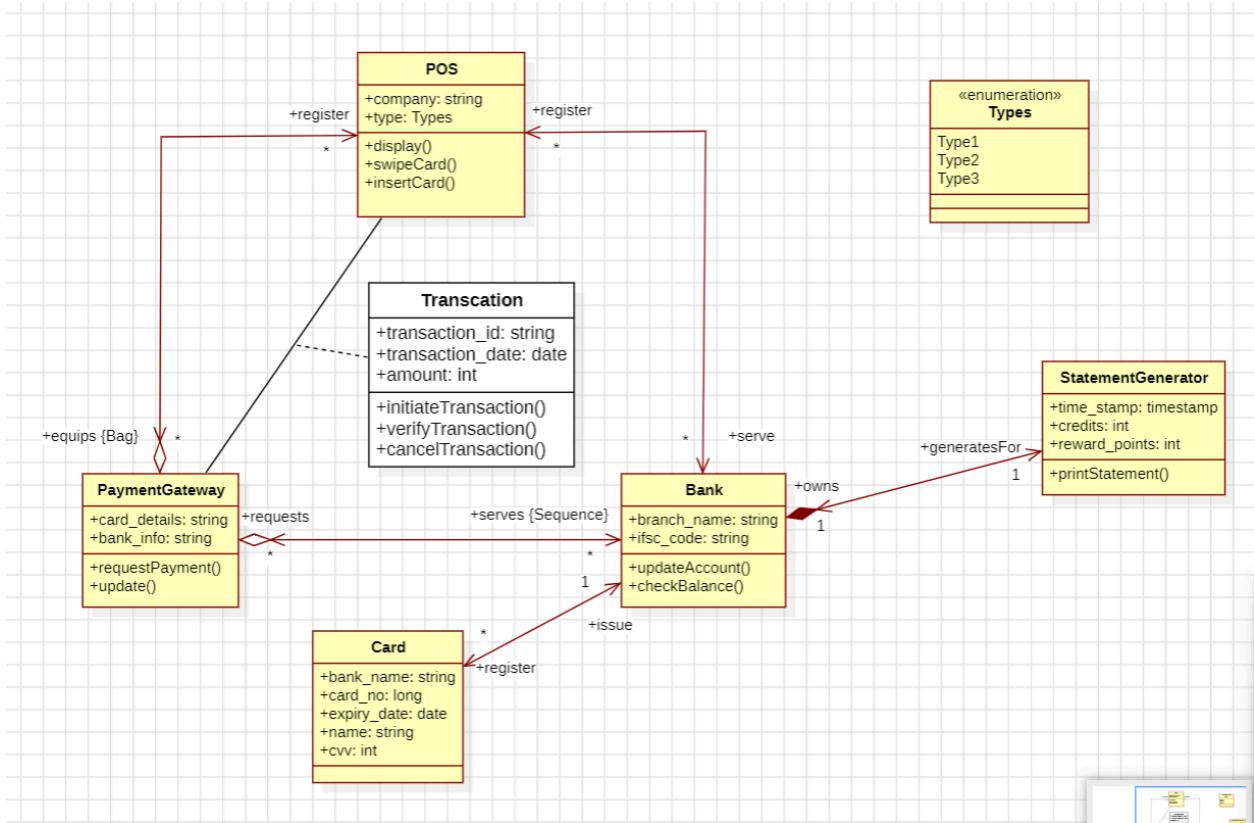
8) Preliminary schedule and Budget

The project must be completed within

10 months and budget to be allocated
is \$600,000. If any changes made reserve
budget must be used

Budget split

Software development	\$175000
Hardware	\$100000
Security	\$75000
Licences	\$50000
Testing	\$50000
Project management	\$25000
Documentation	\$15000
Maintenance	\$10000
Total.	\$600000



3) Library Management System

Date Page	<p><u>Library management system</u></p> <p>1) Introduction</p> <p>1.1 Purpose of this document.</p> <p>This SRS defines the functional and non functional requirements. It specifies necessary details to create an efficient & robust system.</p> <p>1.2 Scope of this document</p> <p>The system must be able to perform.</p> <ul style="list-style-type: none">→ Easy Borrowing and Lending process→ Track of deadlines & late fee calculation→ Catalogue for book details must be easy to read access from database <p>1.3 Overview.</p> <p>Windows system application, that provides Librarian to scan barcode to enter details in the database.</p> <p>2) General description</p> <p>Borrower must provide card to the Librarian to register the details of borrowed books, and generate a statement of book and date details to be given to the user.</p> <p>3) Functional requirements</p> <p>Easy borrowing & lending process.</p> <p>A barcode scanner is enough for user & book details and automated statement generator present.</p>
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Deadline & Late fee -

Since it is a software system deadline
are easy to track than traditional systems.

Catalogue

Efficient & fast access to any keyword
of book title entered by Librarian

4) Interface requirements

The system must have ^{easy} search options
where they can use filters like author,
genre, publishing year to search books.
Librarian must know stock of books,
magazines, journals etc.

5) Performance requirements

Search results must be displayed within
a latency of 600ms & able to store 100,000
entries.

6) Design constraints

Real time updation of lend book &
user details in the database.

7) Non functional requirements

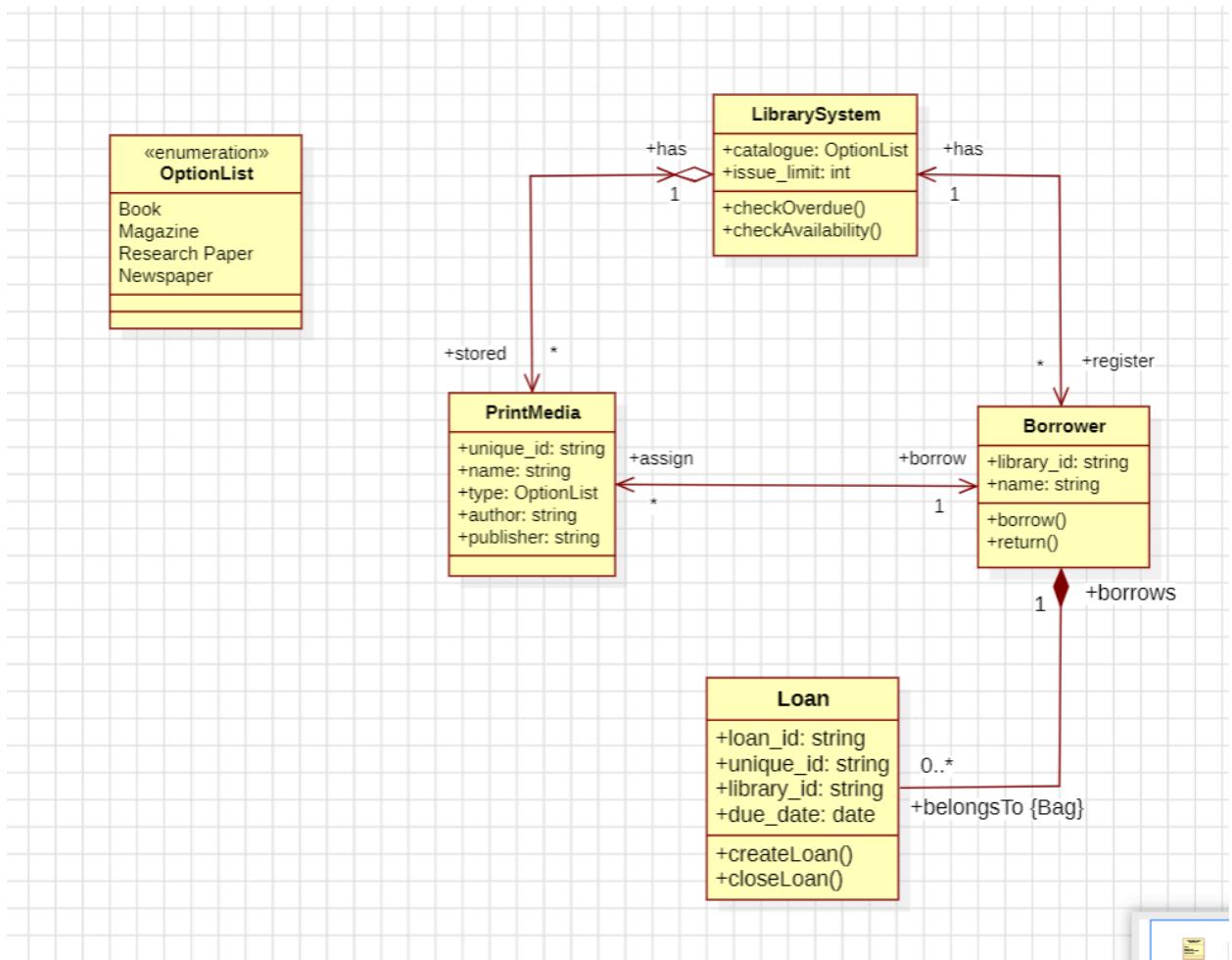
User details must be encoded properly in
the barcodes. Easy to use UI

8) Preliminary schedule & Budget

Project must be completed within 2
months with a budget of 3000\$. If needed
reserve budget of 500\$ must be accessed

Budget split

Software development	\$ 1500
Hardware	\$ 600
Licenses	\$ 300
Testing	\$ 300
Documentation	\$ 150
Maintenance	\$ 150
Total.	\$ 3000.



4) Stock Maintenance system

Stock Maintenance system

1) Introduction.

1.1 Purpose

The purpose of the system is to automate and streamline inventory management, track stock levels in real time, and support decision making for stock replenishment.

1.2 Scope

The system will manage inventory for a business, including adding, editing, deleting and tracking stock items, managing supplier information etc. It will provide up-to-date stock data.

1.3 Overview.

System will integrate existing sales & finance system & provide a web based interface for authorized users.

2) General description

The system will be a centralized solution, accessible by multiple departments. It will track stock levels, support inventory valuation and provide features for managing suppliers.

3) Functional requirements

- * The system shall allow users to add, edit and delete stock items.
- * The system shall update stock quantities in real time.
- * Maintain history of stock trades

- * Generate automatic alerts when stock levels reach a predefined threshold.

4) Interface requirements

- * It will include dashboard views for inventory levels, search options & sorted tables.
- * Printers for getting trade reports.
- * Integration with existing systems using RESTful APIs.

5) Performance requirements

- * System shall support upto 5000 customers.
- * Average response time for stock queries shall be less than 3 seconds.
- * Updation of data must be real with delay not exceeding 2 seconds.

6) Design constraints

- * System must support multiple user roles with different access levels.
- * It should comply with company policies for security & data access.

7) Non functional requirements

- * Scalability to increase no of users & data volume.
- * Secure authentication measures and role based control access.
- * Simple and easy to navigate user interface and documentation.

8) Preliminary schedule & Budget

Total duration: 20 weeks

Budget

Software development : \$30000

Hardware (servers) \$15000

Licenses \$5000

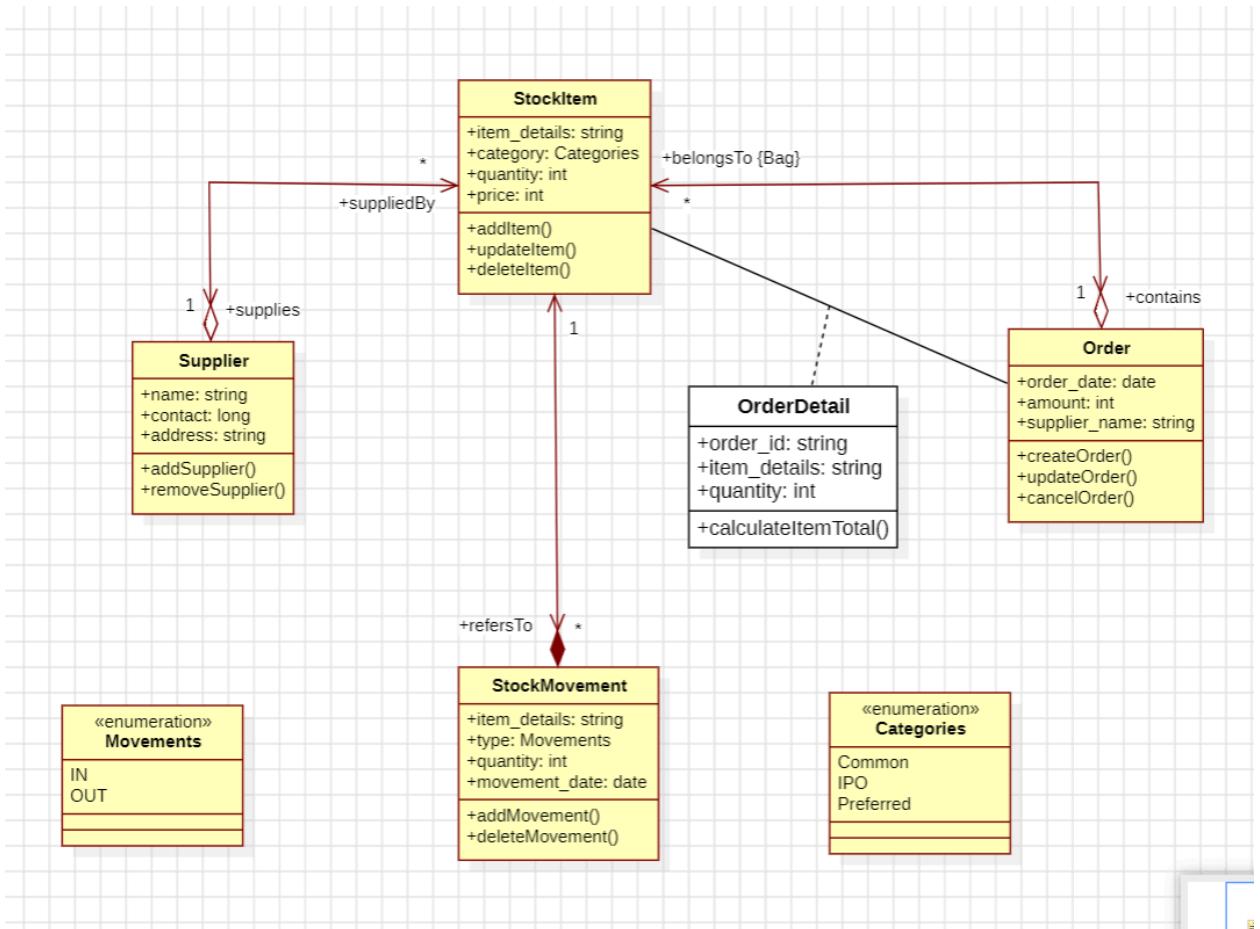
Testing \$10000

Management \$5000

Documentation \$5000

Total \$70000

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5) Passport Automation System

Passport automation system

1) Introduction

1.1 Purpose

The purpose of this system is to automate process of passport application, verification, issue to reduce manual works.

1.2 Scope

System will allow applicants to submit their passport applications, upload documents, schedule appointments, track their application status.

1.3 Overview

It includes modules for applicant registration, document verification, appointment scheduling & status tracking. A web portal for applicants & a backend system for government staff.

2) General descriptions

The passport automation system will be a web based platform integrated with government databases for identity verification & payment gateways. Provides automated document verification & provide real-time status updates.

3) Functional requirements

- * Account creation
- * Allow uploading documents in PDF or image format

- * Support scheduling of verification appointment & notify available slots.
- * System should enable government staff to verify the application.

4) Interface requirements

- * Responsive web interface for all devices
- * Integration with document scanners & Geometric devices
- * Integration with government databases

5) Performance requirements

- * The system shall handle upto 10000 users
- * Average response time less than 2 seconds
- * Should support 24x7 availability.

6) Design constraints

- * System should comply with national security & data protection standards

7) Non functional requirements

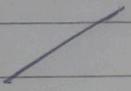
- * System shall use encryption for all sensitive data & have multi-factor authentication.
- * High fault tolerance
- * System should be modular & maintainable.

8) Preliminary schedule & Budget

Duration : 30 weeks

Budget

Software development	\$ 50000
Hardware	\$ 30000
Licenses	\$ 10000
Testing	\$ 15000
Project management	\$ 8000
Documentation	\$ 7000
Total .	\$120000



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