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**Software Requirement Specification (SRS)**

Of

**Payment Integration**

For Implementation of

**Campus Management Software**

At

**World Skill Center (WSC)**

**Sustainable Outreach And Universal**

**Leadership (SOUL) Limited**

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# Abstract

Software Requirements Gathering is one of the first phases of system development. This phase results in the Software Requirements Specification (SRS) document, which must contain a complete, concise, high-quality description of the system being considered.

# Introduction

The World Skill Center (WSC) is a premier advanced skill training institute established by the Government of Odisha, Skill Development and Technical Education Department, through the Odisha Skill Development Authority (OSDA). The WSC will impart advanced skill training in eight trades from engineering and service sectors. WSC caters primarily to induct the best talent from ITIs and Polytechnics and train them to become globally employable in emerging areas such as "Industry 4.0". WSC is housed in a state-of-the-art, 18-storey, air-conditioned building with nearly half a million square feet of space in the heart of capital city of Bhubaneswar.

With the Implementation of campus management software for WSC the goal is to streamline the operations and functions of the campus by integrating various processes, such as admissions, course registration, academic progress tracking, and financial management, HRMS, Procurement and Inventory management, etc into a unified system. The implementation also aims at providing a user-friendly interface for all stakeholders, making it easier for them to access the necessary information and complete their tasks with ease. The modules to be covered during the implementation of the software include:

|  |  |
| --- | --- |
| Students Management Modules | Infrastructure Management |
| Academic System | Finance and Accounting System |
| Procurement & Inventory Management | Training and Placement |
| Human Resources Management System | Application Integration |

# Purpose

The purpose of this document is to provide a detailed Software Requirements Specification (SRS) for the payment integration module of a software application.

# Scope

This SRS focuses on the requirements related to integrating payment functionality into the software application. It outlines the features, constraints, and interfaces necessary to implement a secure and reliable payment system.

# Definition, Acronyms and Abbreviations

The following table explains the terms and abbreviations used in the document:

|  |  |
| --- | --- |
| **Abbreviation** | **Description** |
| SRS | Software Requirements Specification |
| PI | Payment Integration |
| R | Rename - When a field is Renamed |
| N | New - When a New field is Added |
| D | Delete - When an Existing field is Deleted |
| NA | Not Applicable |

# Overview of the Document

This requirement document provides a detailed overview of the functional requirements of a project. It serves as a communication tool between stakeholders, including developers, project managers, and end-users. The purpose of this requirement document is to define and document the project's objectives, scope, and expectations, and to ensure that all stakeholders have a clear understanding of what the project entails.

This document covers all the functional requirements of the Payment Integration. This module helps in organizing the overall payment process of the students.

# Functional Requirements

1. **Payment Gateway Selection**: Describe the ability to select and integrate with one or more payment gateways based on business requirements.
2. **Payment Methods**: Specify the supported payment methods, such as credit cards, debit cards, online wallets, or bank transfers.
3. **Payment Processing**: Outline the steps involved in processing a payment, including authorization, validation, and settlement.
4. **Error Handling**: Define how errors or exceptions related to payments will be handled, including displaying appropriate error messages to users.
5. **Refunds and Cancellations**: Describe the functionality to process refunds and handle payment cancellations.
6. **Security and Compliance**: Specify the security measures to be implemented, including data encryption, compliance with Payment Card Industry Data Security Standard (PCI DSS), and other relevant security standards.
7. **Notifications and Confirmations**: Describe the mechanism for sending payment-related notifications and confirmation emails to users and administrators.
8. **Reporting and Analytics**: Specify the reporting and analytics requirements, such as generating transaction reports, tracking payment trends, and monitoring system performance.

# Non-Functional Requirements

1. **Performance**: Specify performance requirements, including response times, transaction throughput, and system scalability.
2. **Reliability**: Define the reliability requirements, such as availability, fault tolerance, and disaster recovery.
3. **Usability**: Describe usability requirements, including user-friendly interfaces, clear error messages, and intuitive workflows.
4. **Compatibility**: Specify compatibility requirements with different operating systems, web browsers, and devices.
5. **Security**: Define security requirements, including authentication, access control, data encryption, and secure communication protocols.
6. **Compliance**: Specify any legal or regulatory compliance requirements, such as GDPR, PCI DSS, or other industry-specific standards.
7. **Documentation**: Describe the documentation requirements, including user manuals, developer guides, and API documentation.

# List of Screens and their descriptions

The following screens are involved in payment process:

|  |  |  |
| --- | --- | --- |
| **Sl no** | **Existing Application** **Screen Name** | **Description** |
| Online Payment | | |
| 1 | ICICI online payment | It allows you to process for online payment |

# Payment process

## 

Figure 1 : Payment Workflow

**User: Roles & Permission**

The following table describes the users and their roles and permissions for the screens:

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Role** | **Select** | **Read** | **Write** | **Create** | **Delete** | **Submit** | **Cancel** | **Amend** |
| 1 | Admin | Yes | Yes | Yes | Yes | Yes | NA | NA | NA |
| 2 | Student | Yes | Yes | Yes | Yes | No | Yes | Yes | NA |