

# Internet Service Provider Management System

## Project Proposal



Submitted to

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## **1. Introduction**

In these modern time there is a need to computerize the internet billing system to manage and store the record of the customer and employee instead of doing everything hand written on registers. The Internet Service Provider Management System generates the bill according to the speed of the internet which the customer need and also record and maintain the data of the employee which works in company. This can help peoples to do their task more easily and efficiently without any problem and errors, as it is the case when every company tasks are done manually by human himself.

## **2. Objective**

The objective of the Internet Service Provider Management System is to increase Efficiency and to maintain the record. It makes it easier to manage the details of the customer and also employee on a single platform. This can reduce human errors and speed up the process.

## **3. Problem Description**

Due to large amount of customers as well as employees in the company it is difficult to keep track of data and is used to store the previous records e.g. customer's monthly bills and salaries of the employees. Managing records by hand written is very difficult and many times peoples make mistake in this and also require a specific time and a specific person to maintain the data. So to avoid the mistakes and waste of time there is an only automated management system. You don't even have to look for the customer's record and remember whether you wrote the record or not. When the customer submits the bill, the record will be safe and the slip of the bill will be generated.

## **4. Requirements**

All the requirements related to your system should be listed here.

1. Sign in / Sign out
  - a. Sign in on Employee panel
  - b. Sign in on Customer panel
2. Add/modify/Remove employees or customer's records
3. Searching records of employees or customers
4. Adaptable for windows operating system
5. User friendly UI
6. Creating bill slips
  - a. Customer monthly Bill
  - b. Employee salary slip

## Semester Project – Phase 1

Total Marks: 10

Weightage: 4

In this course, you are asked to write a software requirement specification document as a semester project. The first phase should contain the following requirements:

1. 10 Functional Requirements
2. 5 Non-Functional Requirements
3. 3 Constraints Requirements
4. 2 Inverse Requirements
5. 1 Domain Requirement

### Functional Requirements Description

Functional Req. ID #	Function Name	Functional Requirement Description	Software Requirement
FR 1	Sign in on employee side	It will allow the team of ISP company to manage the record of all employees.	1a
FR 2	ADD employee record	The team of ISP company insert the data of new employee like name, address, resignation, phone no, etc.	2
FR 3	Modify employee record	The team of ISP company can update the record of all the employees like names, addresses, resignations, phone no, etc.	2
FR 4	Delete employee record	The team of ISP company can delete the record of all the employees or delete a record of one employee at one time.	2
FR 5	Searching employee record	The team of ISP company can search the record of any employee.	3
FR 6	Sign in on customer panel	It will allow the team of ISP company to manage the details of all the customers.	1b

FR 7	ADD customer record	The team of ISP company insert the data of new customer like name, address, package , phone no, payment etc.	2
FR 8	Modify employee record	The team of ISP company modify the record of any customer like name, address, package , phone no, payment etc.	2
FR 9	Delete employee record	The team of ISP company can delete the record of all the customers or delete a record of one customer at one time.	2
FR 10	Searching employee record	The team of ISP company can search the history of any customers.	3
FR 11	Creating slips	The team of ISP company can generate the salary slip for employees and also generate monthly payment bill for customers.	6
FR 12	Customer monthly bill	The team of ISP company can generate the salary slip for employees.	6a
FR 13	Employee salary slip	The team of ISP company can generate monthly payment bill for customers.	6b

### Non-functional Requirements Description

Non-Functional Req. ID #	Function Name	Non-Functional Requirement Description	Software Requirement
NFR 1	User friendly interface	It will make very easy to use environment and attractive UI/UX design	5
NFR 2	Compatibility	Adaptable or fully supportable on windows OS	4
NFR 3	Security	The team of ISP cannot sign in on employee or customer panel	1a, 1b

		with a unique username or a strong hashing password.	
NFR 4	Capacity	Storage capacity for saving the record the of the employees and customers.	2
NFR 5	Usability	Make easy to use for the team of ISO company	2, 6a, 6b
NFR 6	SIZE	What is the storing capacity in k bytes to store the records of customers and employees	2,3
NFR 7	Robustness	It will ensure to make less probability of failure of data of customers and employees	2,3,6
NFR 8	Portability	Depending module of the software like insert over modify, delete etc.	2,3

### Constraint Requirements Description

Constraint Req. ID #	Function Name	Constraint Requirement Description	Software Requirement
CON 1	Tool	The system should be developed using dev cpp software	4
CON 2	Platform(podium)	This system should developed only for windows operating system and it can not run on Linux or mac OS.	4
CON 3	project budge	It will totally depend on the cost of the software.	4,5

### Inverse Requirements Description

Inverse Req. ID #	Function Name	Inverse Requirement Description	Software Requirement
INV 1	Color Changing	The system cannot use red color user interface when team have to insert new details of employee or customer	2

INV 2	Compatibility	This system cannot support any other operating system except windows operating system.	4
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### **Constraint Requirements Description**

<b>Constraint Req. ID #</b>	<b>Function Name</b>	<b>Constraint Requirement Description</b>	<b>Software Requirement</b>
DOM 1	Employees or customers record or history	This software should be able to save the history and record or the customers and employees	2

**Submission Deadline: 16<sup>th</sup> June 2022**