

Proposal on
***“Garments Employee
Management System”***

Prepared for:

Dr. Taslim Taher Assistant Professor
Mr. Nafis Fuad Lecturer

Course Number & Name:

CSE 3224- Information & System Design

Prepared by:

Lab Section: A1

Kamrul Hassan

ID: 20200104009

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Ahsanullah University of Science & Technology
Department of Computer Science and Engineering*

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1 Project Overview

The idea behind “Garments Employee Management System” is to design a structure with the motive of maintaining all the databases of the concern. The basic aim of the project is to develop a system which is very simple, user friendly, easy retrieval and simple access.

Garments deals with employees. This project aims at to monitor all the information of the employees in the company. Like employee details, previous job details, salary details, leave status, department etc. As in many garments these works are done manually at present it takes a lot of time to complete the work also there are risks to lose data.

The main goal of this project is to reduce manual works, increase the processing speed and ensure reliability of data.

1 Construction

➤ Framework

- Frontend: JAVA SWING
- Backend : JAVA
- Database: MSSQL

2 User Story

As an admin of the Garments Employee Management System, I want to efficiently manage employee information and related data to streamline operations and enhance productivity.

User Story: Employee Information Management

As an admin, I want to be able to add, view, edit, and delete employee records in the system. This includes capturing details such as employee ID, name, contact information, and employment status. Additionally, I want to be able to assign employees to different departments within the organization.

User Story: Salary Management

As an admin, I want to manage employee salaries effectively. This includes the ability to

set and update salary details for each employee, such as the basic salary, overtime rates, and any additional allowances or deductions. I also want to be able to generate salary reports and track payment history.

User Story: Job History Tracking

As an admin, I want to maintain a comprehensive job history for each employee. This includes recording information such as job titles, promotion dates, and any transfers between departments. I want to be able to access this information easily and generate reports to analyze employee career progression within the organization.

User Story: Attendance Management

As an admin, I want to keep track of employee attendance to monitor their punctuality and work hours. I need to be able to record attendance on a daily basis, including absences, leaves, and late arrivals. The system should provide automated calculations for leave balances and allow me to generate attendance reports for individual employees or the entire workforce.

User Story: Allowance Management

As an admin, I want to manage various allowances provided to employees, such as housing allowances, transportation allowances, or meal allowances. I need the ability to define and update these allowances for each employee based on their eligibility and organizational policies. It should be possible to generate reports to track allowance disbursements.

User Story: Leave Management

As an admin, I want to handle employee leave requests efficiently. This includes receiving and approving leave applications, tracking leave balances, and maintaining a leave calendar. The system should allow me to define different types of leaves, such as annual leave, sick leave, or maternity leave, and provide notifications to both employees and managers regarding leave requests and approvals.

User Story: Department Management

As an admin, I want to manage different departments within the organization. This includes creating, editing, and deleting department records, as well as assigning employees to specific departments. I need to be able to view department-wise employee lists and generate reports to analyze workforce distribution across departments.

These user stories aim to capture the main functionalities and requirements of the Garments Employee Management System. They focus on the key aspects of employee information, salary management, job history tracking, attendance management, allowance management, leave management, and department management to ensure efficient administration and enhanced organizational operations.

3 Module breakdown

4.1 *Login Management:*

- Admin Registration: Allows Admin to create new accounts
- Admin Login: Enables Admin to log in to their accounts & also allows to get access to whole process

4.2 *Employee Catalog:*

- Employee List: Displays a comprehensive list of all employees.
- Employee Details: Shows detailed information about ones.
- Employee Search: Allows admin to search for employee based on various criteria

4.3 *Employee's List Management:*

- Employee list Management: Provides functionality to add, remove, and update of employee information in the employee list.
- Search: Provides functionality to search for employee based on various criteria.(key released search system)

4.4 *Department Management:*

- Department controls: Provides functionality to add, remove and update of department information.
- Department wise employee list: Display all employee list according to a particular department.
- Department wise employee update: Provides functionality to add, remove and update employee's information of a particular department.
- Search: Provides functionality to search employee from every particular department based on various criteria. (key released search system)

4.5 *Job History:*

- Job History Management: Coming with functionality to display every single employee's job history.
- Job History Controls: Provides functionality to add or update of one's job history.
- Search: Provides functionality to search the employee admin want to check out his/her job history. (key released search system)

4.6 Attendance Management:

- Attendance counting: Attendance will be counted according to Bangladesh labour act, 2006.
- Attendance Management: Provides functionality to update the attendance list
- Search: Allows administrators to search details of one's attendance.

4.7 Salary Management:

- Salary Record: Salary will be counted by depending on salary grade that are being defined according to basic salary set by Bangladesh labour act,2006.
- Salary Management: Provides functionality to update employee's salary status.
- Search: Provides functionality to search one's salary status paid or not. (key released search system)

4.8 Leave Management:

- Leave Counting: Leave will be counted if its status is yes and will also be the reason to reduce salary.
- Search: Provides functionality to search one's leave status. (Key released search system)

4.9 Allowance Management:

- Allowance Management: Provides functionality to update employee's list on particular allowance.
- Effect on Salary: Allowance is going to help one's to increase his/her salary.
- Search: Provide functionality to search employees under a particular allowance. (Key released search system)

4 Collaboration Matrix

The collaboration matrix outlines the roles involved in the Garments Employee Management System project and their responsibilities. It shows the distribution of tasks among the project manager, UX/UI designer, front-end developer, back-end developer, and QA tester. The matrix provides clarity on who is responsible for each task throughout the project lifecycle.

Role/Task	Kamrul	Ziaul	Musfiqur	Anan	Arafat
Requirements Gathering	R	A	A	C	C
User Research	A	R	C	I	R
Prototype Development	C	R	I	A	C
UI Design	C	R	R	R	A
Front-end Development	R	C	R	R	R
Back-end Development	R	A	C	A	R
Database Design	R	R	C	C	R
User Acceptance Testing	A	A	C	A	A
Deployment	R	A	A	R	R
<p>R = Responsible for the task</p> <p>A = Accountable for the overall success or failure of the Task</p> <p>C = Consulted for the expertise</p> <p>I = Informed about the progress, decisions</p>					

Figure 2: Collaboration Matrix

5 Project Timeline

6.1 Gantt Chart

The Gantt chart presented below provides a visual representation of the project schedule for the development of the Garments Employee Management System. The chart illustrates the start and end dates of various tasks involved in the project and their dependencies. This Gantt chart serves as a valuable tool for project management, to track progress, manage dependencies, and ensure the timely completion of the project.

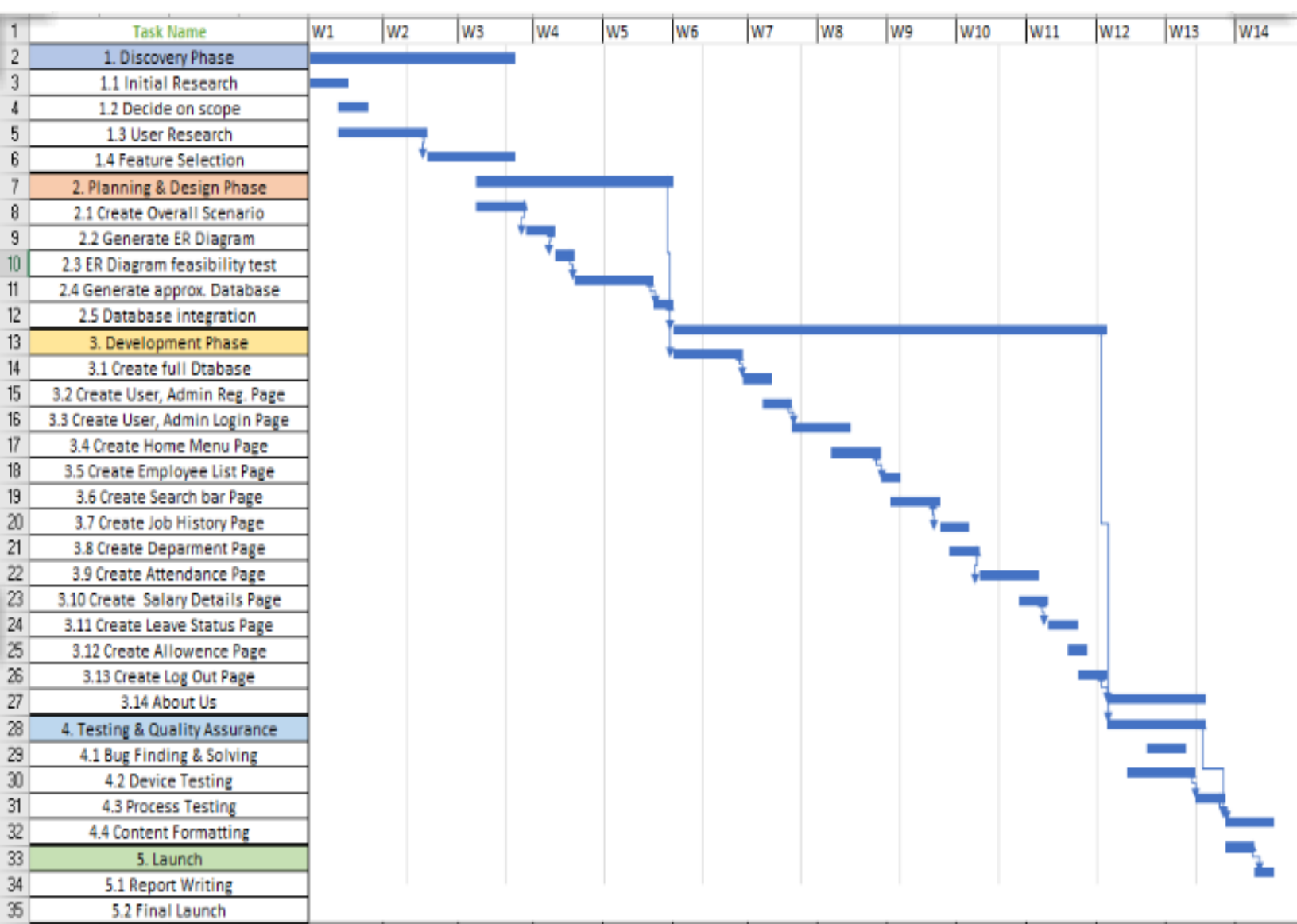


Figure 3: Gantt Chart.

6 Conclusion

In conclusion, the successful implementation of the Garments Employee Management System project will contribute to the growth of the garments industry, providing garments industry with a convenient and useful platform to discover, explore users comfort zone. This project proposal sets the foundation for a well-planned and executed development process, laying the groundwork for a successful and impactful system that meets the needs and expectations of both users.