

SWE30010: Managing IT Project

Sprint Review

HUMAN RESOURCE MANAGEMENT WITH ATTENDANCE SYSTEM

Group 2:

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Overview

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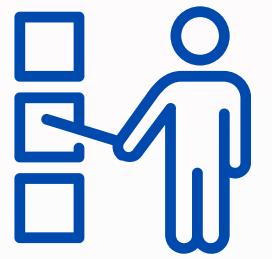


HRM System

The main goal of this solution is to build a complete HRM system that allows the HR department to precisely track when employees clock in, which makes it possible to calculate their actual work hours for a variety of purposes, including payroll and performance reviews. As a result, this is an improvement over conventional HRM systems, where regulation is lax, and attendance is frequently not formally documented.

GROUP ROLES

The function of each group member



Nhat Minh

Leader. Lead and understand assignment, assign tasks to members.

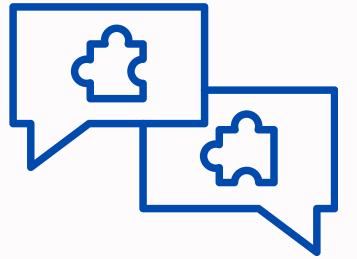


Hoang Hai

Main Developer. Comes up with ideas, create solutions, resolve issue.

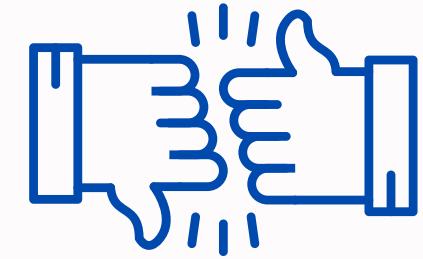
GROUP ROLES

The function of each group member



Minh Thy

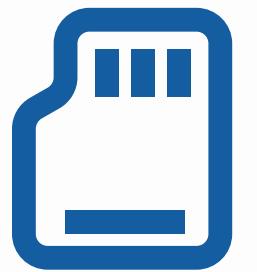
Informant. Keeps the team afloat on tasks, communicate, resolve conflict, keeps collaboration effective.



Nhat Huy

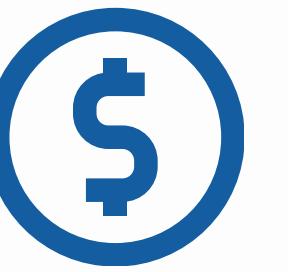
Main Designer. Evaluate effectiveness, task performance, suggest improvement of writing and mock up.

Objectives



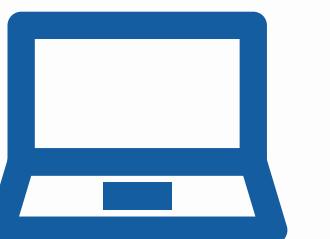
Streamlined

Faster HR processes,
better execution.



Time management

Offer great
management over time,
payroll, attendance, etc.



User-friendly

Easy to learn, easy to
use, easy to scale.



Features

01

Employee Information Management

02

Recruitment and Applicant Tracking

03

Onboarding and Offboarding

04

Payroll Management

05

Time and Attendance Tracking

Features

- Reporting and Analytics
- Performance Management
- Learning and Development
- Integration with Existing Systems

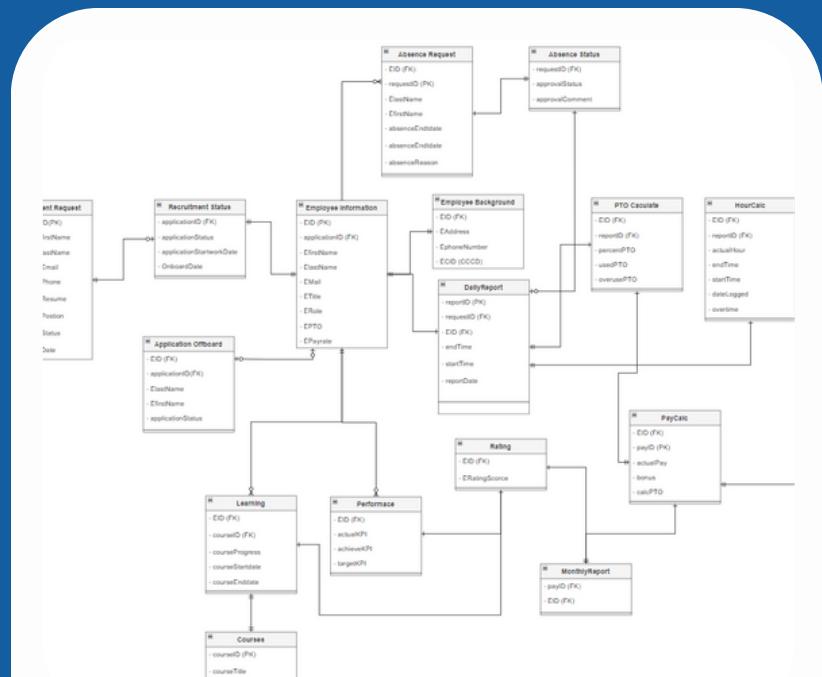
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- 08
- 09

Product Backlog

No.	Item	Dependencies	Business Value (1 least – 10 most)	Release Schedule (Sprint 1 2 3 ...)
F1	Product UI/UX Design	None	7	Sprint 1
F2	Website for HRM	None	9	Sprint 1
F3	HR database schema design	F2	8	Sprint 1
F4	Manager Portal	F1, F3	7	Sprint 1
F5	Employee Feedback and Survey Module	F1, F3	6	Sprint 2
F6	Employee information form implementation	F3	8	Sprint 2
F7	Fingerprint scanner implementation/installation	F3	8	Sprint 2
F8	Recruitment module development	F3	7	Sprint 2
F9	Payroll calculation module development	F3	7	Sprint 2
F10	On and Offboarding template implementation	F3, F6	6	Sprint 3
F11	Leave request feature implementation	F3, F6	6	Sprint 3
F12	Performance evaluation module development	F3, F6	6	Sprint 4
F13	Implement reporting dashboard	F9	8	Sprint 4

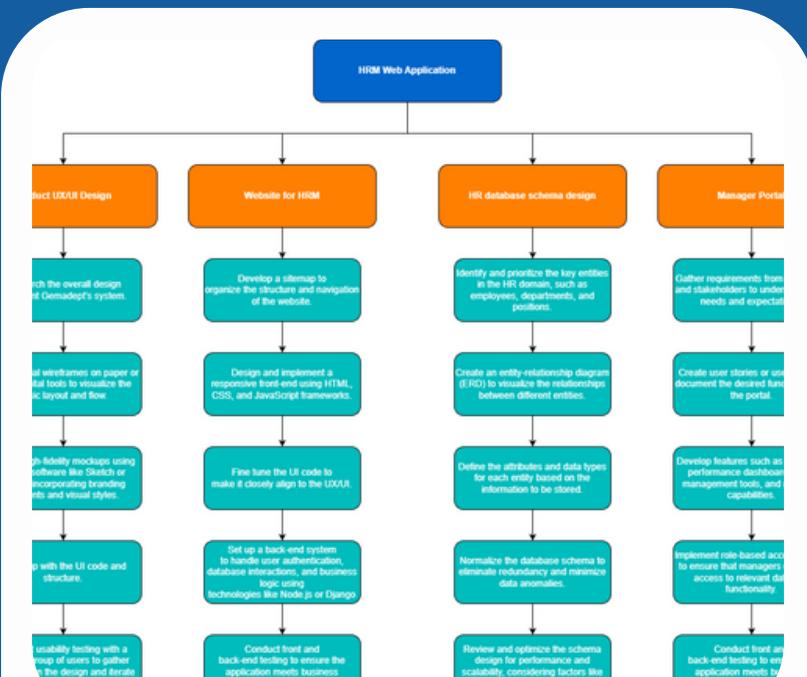


Assistant Diagrams



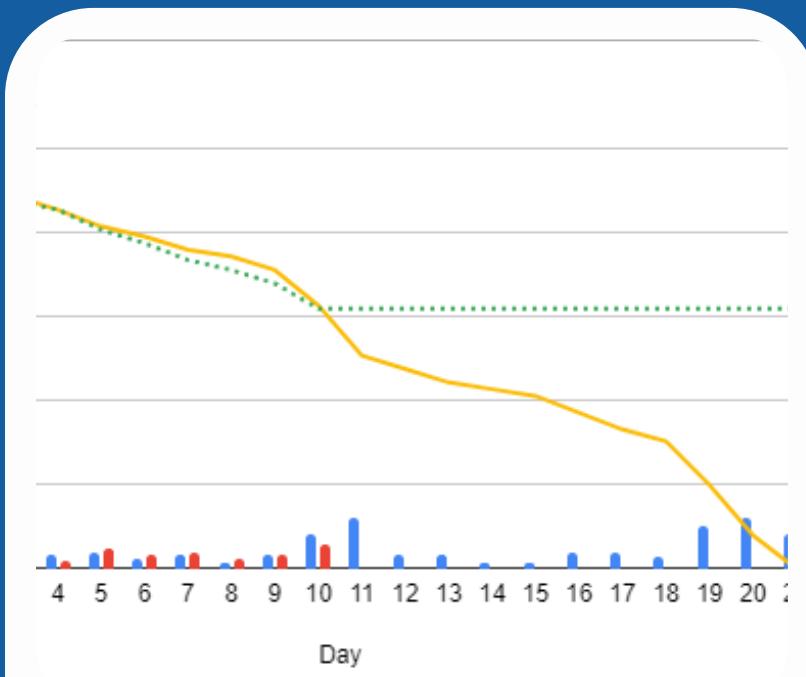
UML

Product UML to indicate the section that needed to be developed



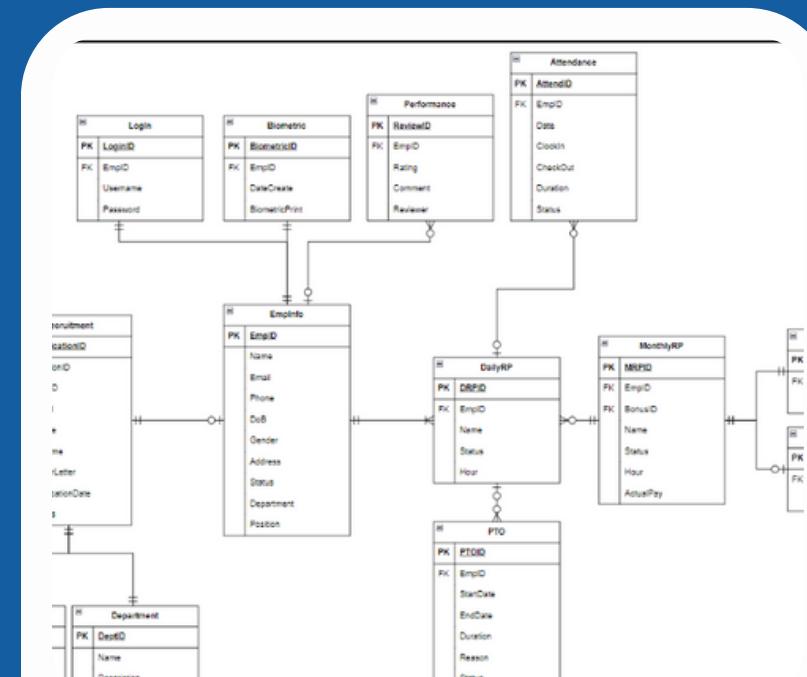
WBS

How the tasks are broken down



Burndown Chart

To estimate the effort it takes each day to complete the product outlined



ERD

A by-product of creating the database used in our product

Completed & Uncompleted Items

Through the sprint, we were able to do a few items that we are capable of, these are just some items amongst a list of other that we have.

However, due to lack of resources, were still have items that are pending and not completed yet.

Item 01

Sitemap and navigation paths of the website

Item 02

Design mockup of the website

Item 03

The website, database, core calculation modules

Item 01

Collaborate with Back-end Developers to synchronise UI design.

Item 02

Deep testing - only test on the surface

Item 03

Reporting dashboard needs more relevant analysis



DEMO

Mockup and Website Demo

Vue JS

At our core, we prioritize A progressive JavaScript framework for building interactive user interfaces with ease and efficiency.



01

ChartJS

Simple yet flexible JavaScript charting library for the modern web



02

TailwindCSS

Rapid styling and customization without sacrificing flexibility or maintainability.



03

Sweetalert2

A beautiful, responsive, customizable, accessible replacement for JavaScript's popup boxes



04

User Experience

At our core, we prioritize delivering exceptional user experiences that seamlessly blend functionality with aesthetic appeal. To achieve this goal, we leverage a carefully curated selection of UI packages and frameworks, meticulously chosen to enhance usability and engagement across our platform.

Security

01 Authentication

The web application implements a secure authentication system leveraging the bcrypt hashing algorithm along with salting.

- Cryptographic: hashing function prevents brute-force attack.
- Salting: adding a random value (salt) to each password before hashing
- Storage: Limited access to the database.

With our commitment to employing best practices in password security, users can trust in the integrity of their accounts and enjoy peace of mind knowing their sensitive information is well-protected.

02

Authorization

The web application currently has a role-based system comprising two distinct roles: "admin" and "user." JSON Web Tokens (JWT) is utilized for token generation and management

- With JWT, upon successful authentication, a unique token is generated and issued to the user
- Each token will expire after a while, to prevent exploiting stolen or intercepted tokens
- The backend API system implements a middleware to verify the token for incoming requests, only authenticated users with valid tokens can make request

This critical layer of security safeguards our platform against unauthorized access and potential security breaches, reinforcing user trust and confidence in our commitment to protecting their data and privacy.

THANK YOU FOR LISTENING!

