

SWE30010 - Managing IT Projects
TASK 10: Sprint 1 Mid-Point Progress Reporting

HUMAN RESOURCE MANAGEMENT WITH
ATTENDANCE SYSTEM

Group 2

GROUP 2 INFORMATION

Name	ID	Tutor	Class
Le Hoang Hai	103542974		
Nguyen Dinh Nhat Minh	103802490	Thomas Hang <u>Nsam@swin.edu.au</u>	Saturday 7:00 AM
Nguyen Nhat Huy	103802911		
Nguyen Ngoc Minh Thy	103802791		

SPRINT TASK

1. Introduction

This task is concerned with developing the HRM Application project for Gemadept. Each day will consist of a few tasks that have been established in previous work.

Trello is used to keep track of the progress, in our Trello beside the product and sprint backlog, we also include five additional of lists as follow:

- To do: This list contains all the tasks that need to be completed during the current sprint or iteration. These tasks are prioritized based on their importance and dependencies.
- Doing: Tasks that are currently being worked on by team members are moved to this list. It helps in visualizing the ongoing work and ensures that team members are not duplicating efforts.
- Testing: We would define this list as an extension to the Doing list, as should any problem occur during this phase, it should be put back into the doing phase to be further developed.
- To be confirmed: We will check the items the team completed for the day before sending it to the done list (testing for actual work, and to see if the task met requirement). A member cannot check their item as done to avoid bias, hence, checking must be done by another person that did not participate in doing the items.
- Done: Tasks that have been successfully completed and confirmed are moved to this list. It serves as a record of achievements and completed work items throughout the project lifecycle.

This structure helps us efficiently manage our workflow and ensure transparency and accountability within the team.

2. Sprint Progress:

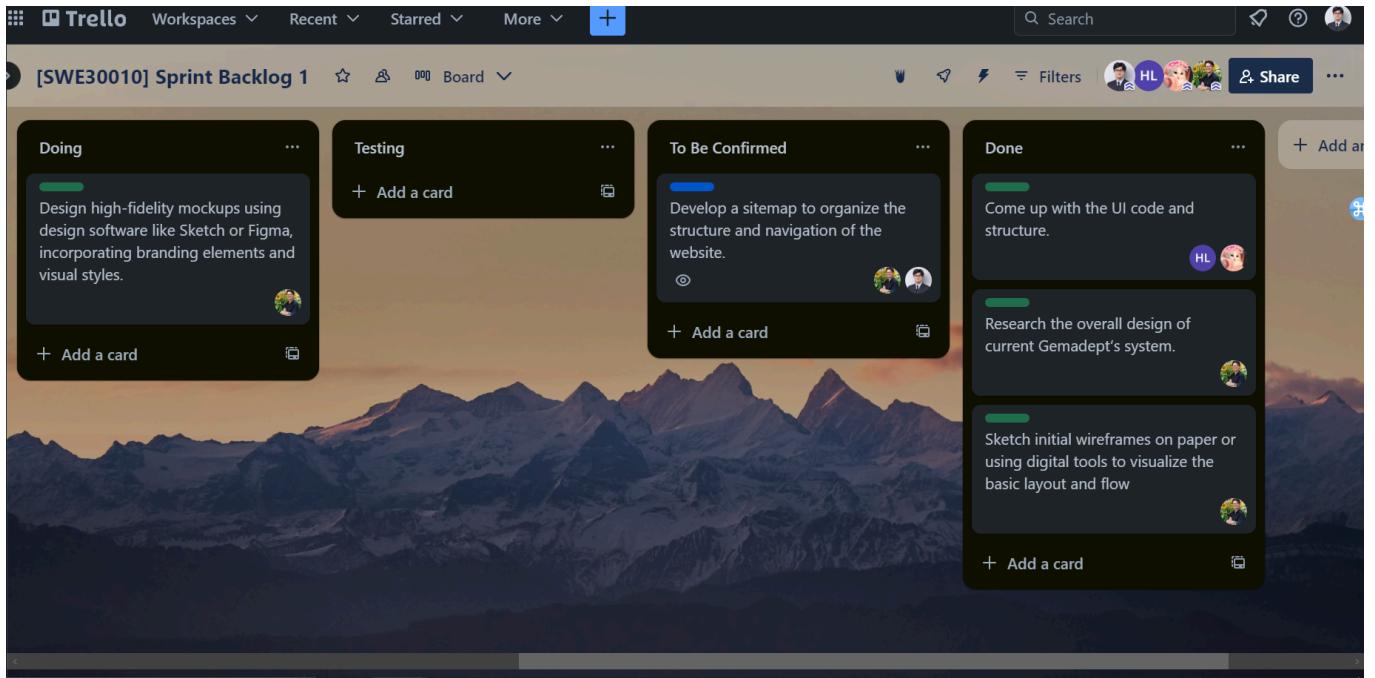
Below are all the items which we have mustered up in the process of doing this sprint.

a) Day One

Task sign-up at the start of the day:

Item	Description	Member
1. Research Gemadept Design	The designer must conduct research on Gemadept Design to gather insights and inspiration for the project.	Nhat Huy
2. Sketch wireframe	Initial wireframes needed to be sketched out to visualize the layout and structure of the project.	Nhat Huy
3. Design Front-end mockup	Preliminary designs for the front-end interface must be created to outline the visual appearance and user interaction flow.	Nhat Huy
4. Develop sitemap	Designer and Leader develop a sitemap to organize the navigation and structure of the website or application.	Nhat Huy Nhat Minh
5. Develop Front-end code (1st edition, not final)	Initial coding efforts that focused on developing the front-end of the project, with a version aimed at providing basic layout.	Hoang Hai Minh Thy

Trello task board at the end of the day:



Code repository on Github:

Commit

Setup environment for API
Add library using Node.js and Express and CRUD Google sheet using google auth

main
HalleInnoTech committed yesterday

Showing 2,235 changed files with 212,748 additions and 3 deletions.

index.js

```
... @@ -0,0 +1,22 @@ ...
1 + console.log("Hello World from index.js!");
2 + require('dotenv').config();
3 + const jwt = require("jsonwebtoken");
4 +
5 + const bcrypt = require("bcrypt");
6 +
7 + const { OAuth2Client } = require("google-auth-library");
8 + const { GoogleSpreadsheet } = require("google-spreadsheet");
9 + const creds = require("./googleAuth.json");
10 + const SHEET_ID = "16q1GexcdHnPd8PsqlpM6ieB25CEIRFpQH_0iget";
11 + const SCOPES = [
12 + "https://www.googleapis.com/auth/spreadsheets",
13 + "https://www.googleapis.com/auth/drive.file",
14 + ];
15 +
16 + const express = require("express");
17 + const app = express();
18 + const cors = require("cors");
19 + app.use(cors({ origin: true }));
20 + app.use(express.json());
21 +
22 + const port = 3000;
```

Back end code development

[Gr2_Hr_Management_FE](#) (Public)

main · 1 Branch · 0 Tags · Go to file · Add file · Code

HaileInnoTech · Update Mainpage based on sketch · 07b5ecc · yesterday · 4 Commits

File	Commit Message	Time
.vscode	Initial commit	last week
public	Initial commit	last week
src	Update Mainpage based on sketch	yesterday
.gitattributes	Initial commit	last week
.gitignore	Initial commit	last week
README.md	Initial commit	last week
index.html	Initial commit	last week
package-lock.json	Add login page template	2 days ago
package.json	Add login page template	2 days ago
postcss.config.js	Add login page template	2 days ago
tailwind.config.js	Add login page template	2 days ago
vite.config.js	Initial commit	last week

README

Vue 3 + Vite

This template should help get you started developing with Vue 3 in Vite. The template uses Vue 3 `<script setup>` SFCs, check out the [script setup docs](#) to learn more.

About
No description, website, or topics provided.

Readme
Activity · 0 stars · 1 watching · 0 forks

Releases
No releases published · Create a new release

Packages
No packages published · Publish your first package

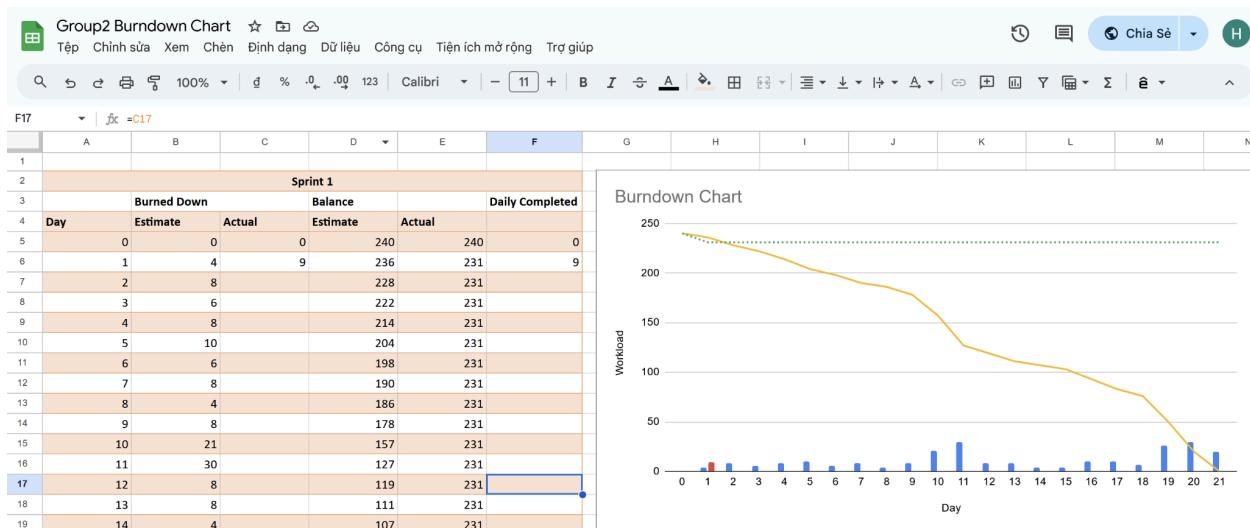
Languages
Vue 89.4% · JavaScript 5.5% · HTML 3.7% · CSS 1.4%

Suggested workflows
Based on your tech stack

SLSA Generic generator · Configure · Generate SLSA3 provenance for your existing release workflows

Back end code development

Burndown chart:



Daily meeting minute:

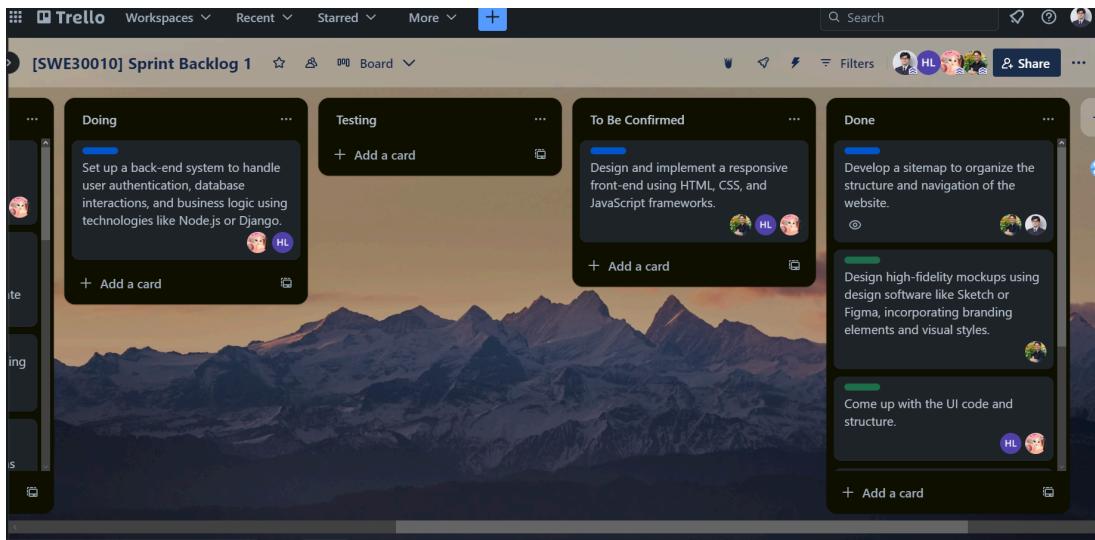
Status	Description	Count
Item Done	Come up with the UI code and structure., Research the overall design of current Gemadept's system., Sketch initial wireframes on paper or use digital tools to visualize the basic layout and flow.	3/5
Item Testing	N/A	0/5
Item Confirming	Develop a sitemap to organize the structure and navigation of the website	1/5
Item Not Done	Design high-fidelity mockups using design software like Sketch or Figma, incorporating branding elements and visual styles.	1/5
Next step	Continue working on the mockup, then move onto doing day 2's tasks	

b) Day Two

Task sign-up at the start of the day:

Item	Description	Member
1. Finish website Mockup	Complete the creation of the website mockup, which includes designing the visual layout, user interface elements, and overall aesthetic presentation of the website.	Nhat Huy
2. Setting up back-end functionality	Implement the necessary functionality on the server-side of the website, including database integration, server logic, and API development to support the website's features and interactions.	Hoang Hai Minh Thy
3. Implement responsive and user friendly features to the initial UI code	Add functions of CSS, JS and HTML to the code function to give the website somewhat of a crude usability.	Nhat Huy Hoang Hai Minh Thy
4. Checking of completed items	We will check the items the team completed for the day before sending it to the done list. A member cannot check their item as done to avoid bias, hence, checking must be done by another person that did not participate in doing the items.	Nhat Minh

Trello task board at the end of the day:



Code repository on Github:

```
Commit
Update api get Employee Data
API for getting employee data from google sheet
Browse file
P main
HalleInnoTech committed yesterday
1 parent 3fbbcc3 commit 86951b
Showing 1 changed file with 56 additions and 1 deletion
index.js
diff --git a/index.js b/index.js
@@ -19,50 +19,59 @@ const cors = require("cors");
 19   19   app.use(cors({ origin: true }));
 20   20   app.use(express.json());
 21   21
 22 - const port = 3000;
 22 + const port = 4000;
 23 +
 24 + app.listen(port, () => {
 25 +   console.log(`Server is running on port ${port}`);
 26 + });
 27 +
 28 + app.get("/employeedata", async (req, res) => {
 29 +   const data = await getEmployeeData();
 30 +
 31 +   const sheet = doc.sheetsByIndex[2];
 32 +   const rows = await sheet.getRows();
 33 +   for (let i = 0; i < rows.length; i++) {
 34 +     const id = rows[i].get("id");
 35 +     const firstName = rows[i].get("first_name");
 36 +     const lastName = rows[i].get("last_name");
 37 +     const email = rows[i].get("email");
 38 +     const address = rows[i].get("address");
 39 +     const phone = rows[i].get("phone");
 40 +     const address = rows[i].get("address");
 41 +     const department = rows[i].get("department");
 42 +     const position = rows[i].get("position");
 43 +
 44 +     data.push({
 45 +       id: id,
 46 +       firstName: firstName,
 47 +       lastName: lastName,
 48 +       email: email,
 49 +       gender: gender,
 50 +       phone: phone,
 51 +       address: address,
 52 +       department: department,
 53 +       position: position,
 54 +     });
 55   }
 56 }

 1 parent 3fbbcc3 commit 86951b
```

Back-end commits on github

Commit

Add login page template
this commit adds the login page front-end UI for employee and admin can access the system

1 parent 37dc527 commit 386d9e

1,456 package-lock.json

1 package.json

Showing 10 changed files with 1,583 additions and 151 deletions.

Filter changed files

- package-lock.json
- package.json
- postcss.config.js
- src
 - App.vue
 - assets
 - BigBmp
 - components
 - HelloWorld.vue
 - Pages
 - Login.vue
 - main.js
 - style.css
- tailwind.config.js

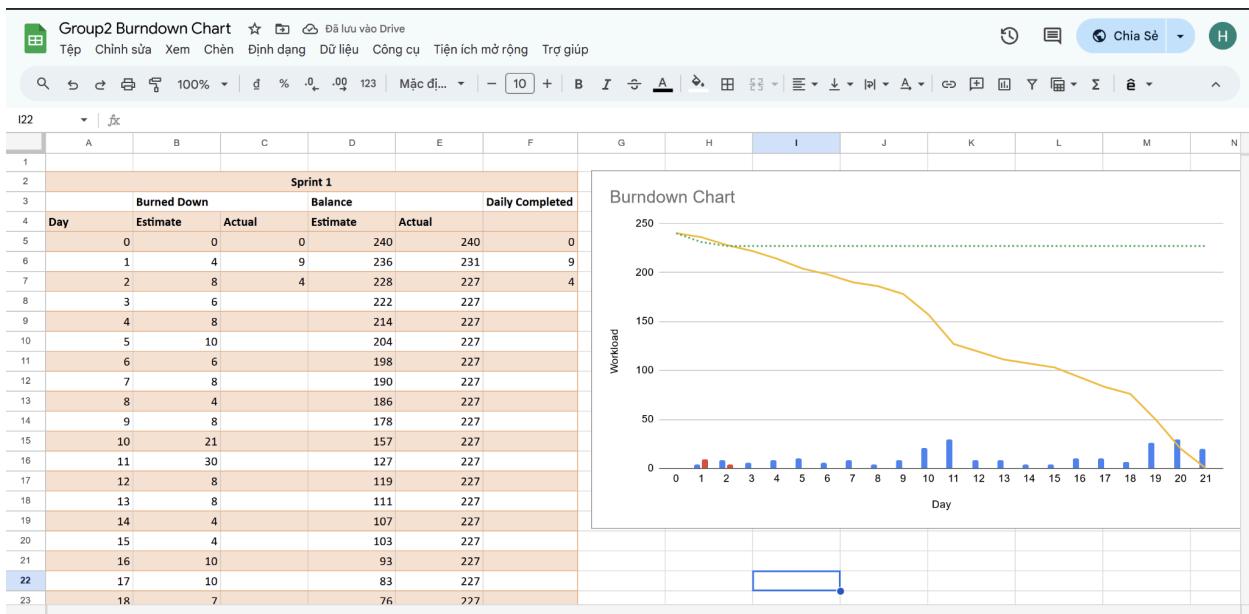
Load diff
Large diffs are not rendered by default.

13 13 @@ -13,6 +13,9 @@
 14 14 "devDependencies": {
 15 15 "@vitejs/plugin-vue": "5.0.4",
 16 16 "autoprefixer": "10.4.18",
 17 17 "postcss": "8.4.35",
 18 18 "tailwindcss": "3.4.1",
 19 19 "vite": "5.1.4"
 20 20 }
 21 21 }

6 postcss.config.js

Front-end commits on github

Burndown chart:



Daily meeting minute:

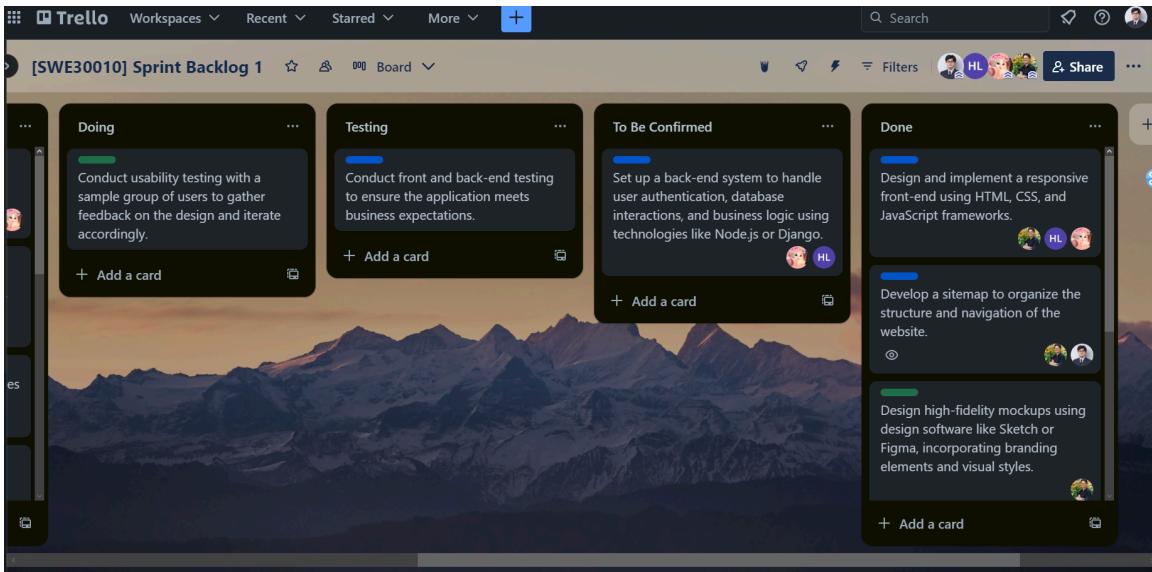
Status	Description	Count
Item Done	Front-end mock up	1/4
Item Testing	N/A	0/4
Item Confirming	Improved front-end design and usability	1/4
Item Not Done	N/A	0/4
Next step	Continue working on the back-end system, check fine tune appropriateness, and move onto next day	

c) Day Three

Task sign-up at the start of the day:

Item	Description	Member
1. Continue back-end functionality	Proceed with the development of back-end functionalities, including database integration, server logic implementation, and API development. Ensure that the back-end system is robust, efficient, and capable of supporting the required functionality of the application.	Hoang Hai Minh Thy
2. Testing the UI code	Perform thorough testing of the front-end codebase to identify and address any bugs, errors, or inconsistencies in the user interface. Test for compatibility across different browsers, devices, and screen sizes to ensure a seamless user experience.	Hoang Hai
3. Conduct testing of front end	Conduct comprehensive testing of the front-end components and features to validate their functionality, usability, and performance. Utilize testing techniques such as unit testing, integration testing, and user acceptance testing to identify and resolve any issues or discrepancies.	Nhat Minh Nhat Huy
4. Checking of completed items	We will check the items the team completed for the day before sending it to the done list. A member cannot check their item as done to avoid bias, hence, checking must be done by another person that did not participate in doing the items.	Nhat Minh Hoang Hai

Trello task board at the end of the day:



Code repository on Github:

Commit

Update api get total attendance
API for getting Employee Attendance by ID from Google Sheet

```
[  
    {  
        "key": "1",  
        "value": 2  
    },  
    {  
        "key": "2",  
        "value": 3  
    },  
    {  
        "key": "3",  
        "value": 2  
    },  
    {  
        "key": "4",  
        "value": 2  
    }  
]
```

main

HaileInnoTech committed yesterday

Showing 3 changed files with 101 additions and 14 deletions.

index.js

```
1  console.log("Hello World from index.js!");  
2  require('dotenv').config();  
3  const jwt = require("jsonwebtoken");  
4  var bodyParser = require("body-parser");  
5  var bcrypt = require("bcrypt");  
6  const port = 4000;  
7  app.listen(port, () => {  
8      console.log(`Server is running on port ${port}`);  
9  });  
10 + const authenticateWithGoogle = async () => {  
11 +     // Authenticate with Google  
12 +     const jwt = new JWT({  
13 +         email: creds.client_email,  
14 +         key: creds.private_key,  
15 +         scopes: SCOPES,  
16 +     });  
17 + }
```

1 parent 069351b commit dcbb0ae

Whitespace Ignore whitespace Split Unified

Back-end development

Commit

Add Horizontal navigation header

HaileInnoTech committed yesterday

Showing 4 changed files with 124 additions and 2 deletions.

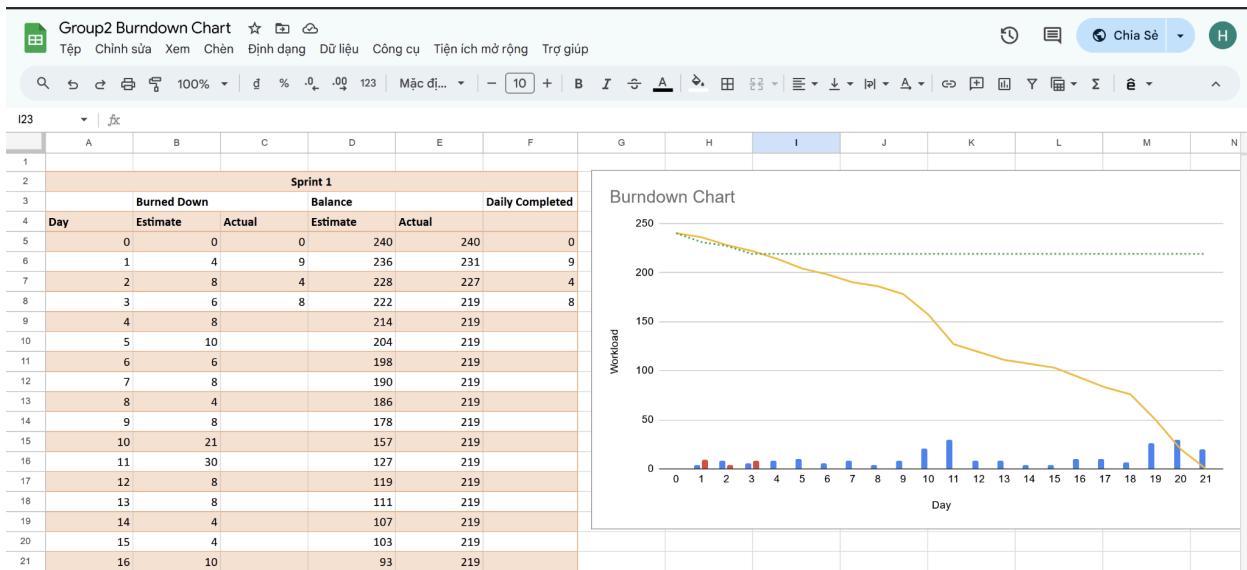
Filter changed files

- src
- App.vue
- components
- Navigate
- Navigation.vue
- image.png
- Pages
- Mainpage.vue

```
✓ 10 src/App.vue
...
1   1     @@ -1,13 +1,19 @@
2   2       <template>
3   3       - <Login />
4   4       + <navigation/>
5   5       + </div>
6   6       + <div>
7   7           <div>
8   8               </div>
9   9       </script>
10  10      import Login from "./components/Pages/Login.vue";
11  11      + import Navigation from "./components/Navigate/Navigation.vue";
12  12      + import Mainpage from "./components/Pages/Mainpage.vue";
13  13      +
14  14      export default {
15  15          components: { Login },
16  16          + components: { Login, Navigation, Mainpage },
17  17      };
18  18      </script>
19  19
```

Front-end development

Burndown chart



Daily meeting minute:

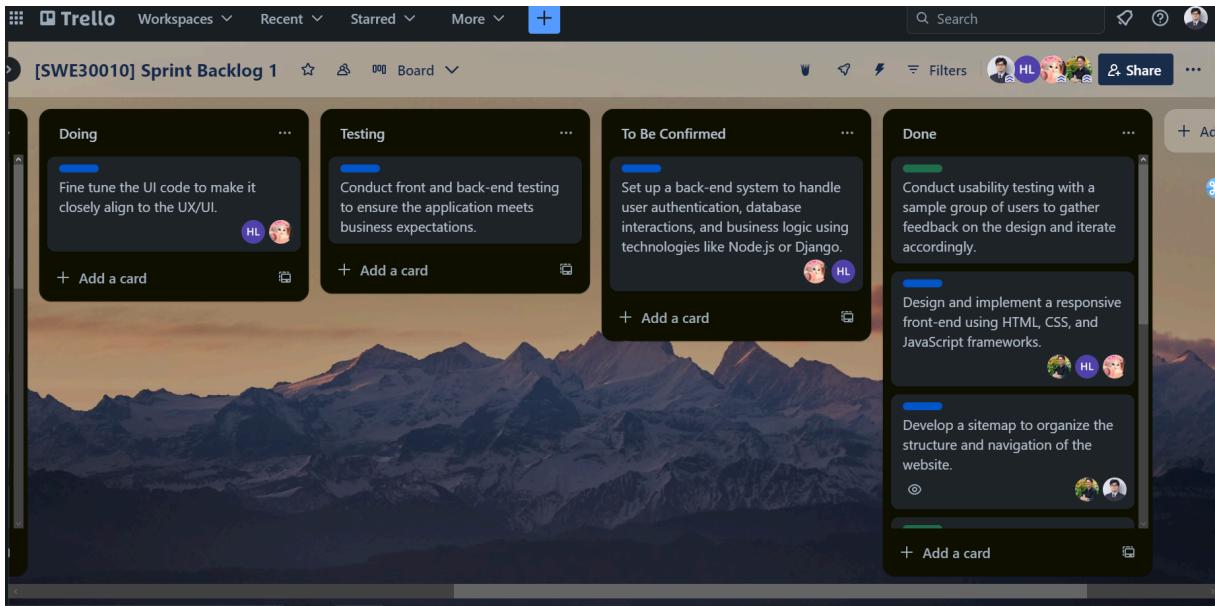
Status	Description	Count
Item Done	Back-end functionality	1/4
Item Testing	Back-end testing (internal testing to ensure correctness)	1/4
Item Confirming	Back-end function	1/4
Item Not Done	Front-end testing (due to time constraint in meeting up with sample users to conduct interview and testing)	1/4
Next step	Reserve more time to meet up with users for testing, and continue with next items.	

d) Day Four

Task sign-up at the start of the day:

Item	Description	Member
1. Review of front-end testing	Front-end review to make sure the task is actually completed and all components are met.	Nhat Minh
2. Reviewing of back-end function	Due to the size of the back-end, it can take a lot of time to review each function. Moreover, this task is also tied to the completeness of the testing phase.	Nhat Minh
3. Testing of back-end function	Back-end testing required a lot of time to make sure each function ran correctly. Should any function fail or need improvement, it is also transferred to the doing stage.	Hoang Hai Nhat Minh
4. Fine tune UI code	After meddling with the back-end, to ensure the visual is met, this website must encompass adjustments to CSS styles, HTML structure, and JavaScript functionality to optimize performance, responsiveness, and accessibility across different devices and screens.	Minh Thy

Trello task board at the end of the day:



Code repository on Github:

```
Commit
```

```
Update api get attendance by email
API for getting Employee Attendance by Email include month filter from Google sheet
[{"email": "gmedalle@printfriendly.com", "date": "9/15/2023", "checkin": "9:00 AM", "checkout": "3:15 PM"}, {"email": "gmedalle@printfriendly.com", "date": "7/13/2023", "checkin": "9:00 AM", "checkout": "9:00 AM"}, {"email": "gmedalle@printfriendly.com", "date": "7/16/2023", "checkin": "10:58 AM", "checkout": "5:59 PM"}, {"email": "gmedalle@printfriendly.com", "date": "7/18/2024", "checkin": "11:07 AM", "checkout": "1:01 PM"}, {"email": "gmedalle@printfriendly.com", "date": "7/12/2023", "checkin": "9:00 AM", "checkout": "2:00 AM"}, {"total": 8}]
```

main

HalleInnoTech committed yesterday

Showing 1 changed file with 55 additions and 55 deletions.

1 parent dcb0ae commit b37808

Whitespace Ignore whitespace Split Unified

```

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```

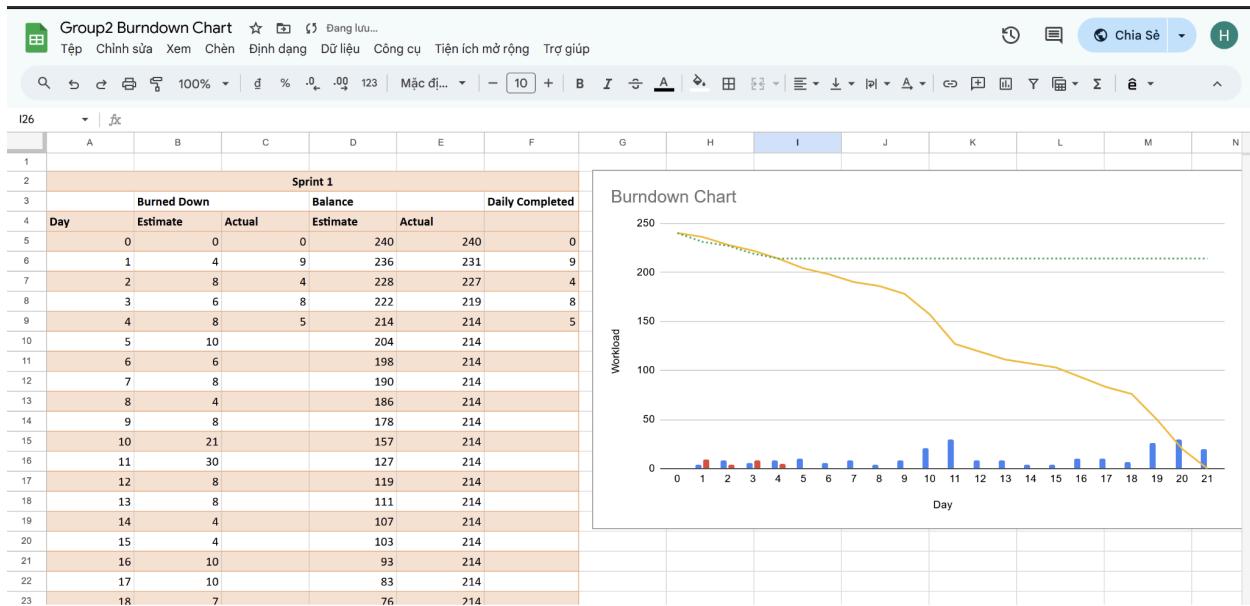
Back-end development

HR Management

Employee Checked In	Time	Employee Checked Out
349	4:31:11 PM	349

Front-end code refine

Burndown chart



Daily meeting minute:

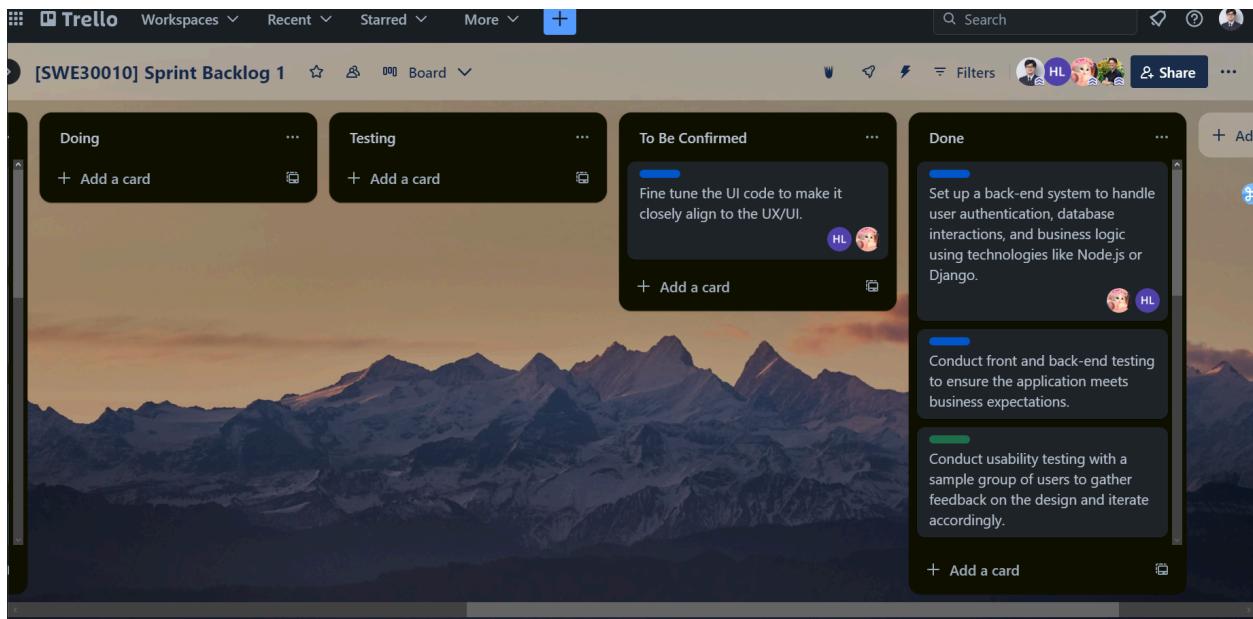
Status	Description	Count
Item Done	N/A	0/4
Item Testing	Back-end testing	1/4
Item Not Done	Fine tune UI code (only partially carried out due to size of back-end)	1/4
Next step	Finish all review and testing	

e) Day Two

Task sign-up at the start of the day:

Item	Description	Member
1. Finish review of previous task	All task not previously done must be done	Nhat Minh
2. Finish UI code	Fine tune UI code to closely align with the mock up	Hoang Hai Minh Thy

Trello task board at the end of the day:



Code repository on Github:

The screenshot shows a GitHub commit page for a file named index.js. A red box highlights a specific block of code in the diff view, which is part of an update to get employee data by email. The code block is as follows:

```
{
  "id": "64",
  "firstname": "Or",
  "lastname": "Danielilot",
  "email": "rdanielilot@ib.com",
  "gender": "Male",
  "phone": "800 Bad 1ao",
  "address": "534 Dunning Parkway",
  "department": "Legal",
  "position": "Electrical Engineer"
}
```

The commit message is "Update api get employee data by email". The commit was made by HalleInnoTech yesterday. The commit has 1 parent (b778dbb) and is titled "Update api get employee data by email".

Showing 1 changed file with 41 additions and 1 deletion.

```

diff --git a/index.js b/index.js
@@ -151,7 +151,6 @@ app.get("/countattendancebymail", async (req, res) => {
 151   151   )
 152   152   }
 153   153   }
 154   154   data.push({ total: hashMap(req.query.mail) });
 155   155   try {
 156     156     try {
 157       157       @@ -166,3 +159,4 @@ app.get("/countattendancebymail", async (req, res) => {
 158         159         res.status(400).send("Cannot get data");
 159         160       }
 160       161     });
 161     162     +
 162     + app.get("/employeedataemail", async (req, res) => {
 163       163       doc = await authenticateWithGoogle();
 164       + const data = [];
 165       + const emaillookup = req.query.email;
 166       + sheet = doc.sheetsbyIndex[2];
 167       + const rows = await sheet.getRows();
 168     168   }

```

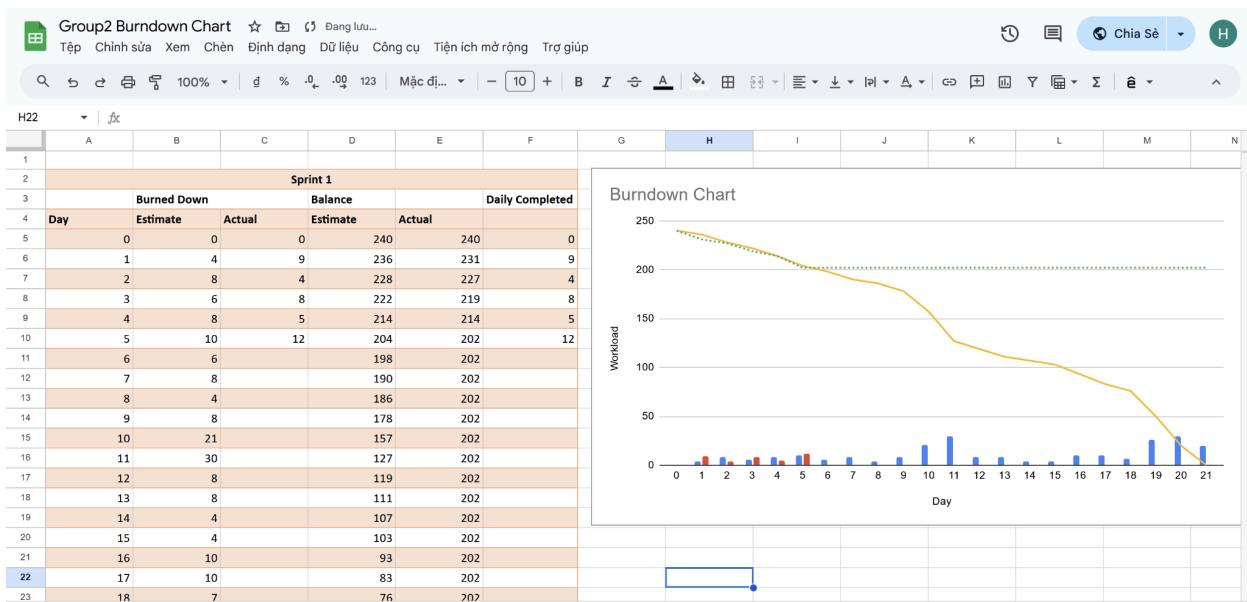
```

162
163 + app.get("/employeedatabyemail", async (req, res) => {
164 +   doc = await authenticateWithGoogle();
165 +   const data = [];
166 +   const emaillookup = req.query.email;
167 +   sheet = doc.sheetsByIndex[2];
168 +   const rows = await sheet.getRows();
169 +   for (let i = 0; i < rows.length; i++) {
170 +     const id = rows[i].get("id");
171 +     const firstName = rows[i].get("first_name");
172 +     const lastName = rows[i].get("last_name");
173 +     const email = rows[i].get("email");
174 +     const gender = rows[i].get("gender");
175 +     const phone = rows[i].get("phone");
176 +     const address = rows[i].get("address");
177 +     const derpartment = rows[i].get("department");
178 +     const position = rows[i].get("position");
179 +     if (emaillookup === email && emaillookup !== "") {
180 +       data.push({
181 +         id: id,
182 +         firstName: firstName,
183 +         lastName: lastName,
184 +         email: email,
185 +         gender: gender,
186 +         phone: phone,
187 +         address: address,
188 +         derpartment: derpartment,
189 +         position: position,
190 +       });
191 +     }
192 +   }
193 +   if (!data.length) {
194 +     data.push({ message: "No data found" });
195 +   }
196 +
197 +   try {
198 +     res.status(200).json(data);
199 +   } catch (err) {
200 +     res.status(400).send("Cannot get data");
201 +   }
202 + });

```

Back-end development

Burndown chart

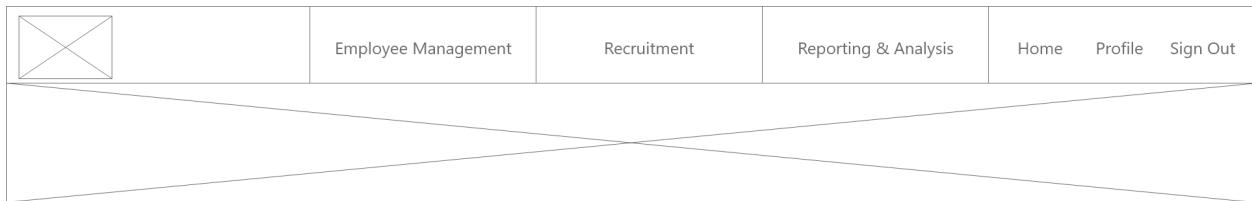


Daily meeting minute:

Status	Description	Count
Item Done	Review of function	1/2
Item Testing	N/A	0/2
Item Confirming	Flne tune UI code	1/2
Item Not Done	N/A	0/2
Next step	Moving to Database Design and Manager Portal	

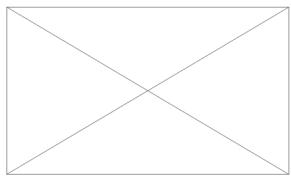
Appendix of Mockup

Wireframe:



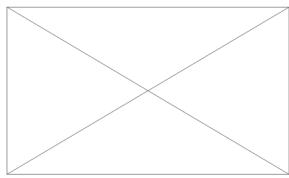
HRM System

Employees Checked In
320



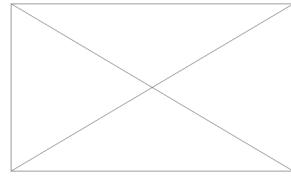
Employee Management

Time
13:32



Recruitment

Employees Checked Out
34



Reporting & Analysis



Main page mockup:

The main page mockup for the HRM System features a blue header bar with the GEMADEPT logo and tagline "THE WAY FORWARD". To the right of the logo are four navigation links: "Employee Management", "Recruitment", "Reporting & Analysis", and icons for "Home", "User", and "Logout". Below the header is a large banner image showing a white truck with "T001" and "TERBERG" on it, parked next to a large ship in a port at night.

HRM System

Employees Checked In 320 | **Time** 13:32 | **Employees Checked Out** 34

Employee Manager | Recruitment | Reporting & Analysis

Employee Manager | **Recruitment** | **Reporting & Analysis**

GEMADEPT
THE WAY FORWARD

Employee Manager mockup:



 Employee Information
Payroll Manager
Performance Tracker

X

X

X

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Recruitment & Applicants mockup:



 Recruitment & Applicants Manager

Applicant's Name...	
Position...	

Send Onboarding Document to Selected

Leave Manager

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