
Easify

Team - 3

- Neeraj Kulkarni
- Janvi Ramani
- Anvai Patil
- Dhruvil Shah
- Varun Patel

Guided By
Professor Henry Wong

Agenda



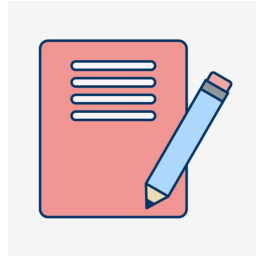
Introduction

- Team members
- Problem Statement
- Project Description
- Personas



Technologies and Design

- Front-end
- Back-end
- Cloud
- Design Architecture



Sprint 5 recap & Sprint 6

- Sprint Backlog
- Test Cases
- Burndown Chart
- Velocity Chart
- Completed Committed Ratio
- Sprint 6 Results



Retrospective



Future work

- Sprint 7 Use Stories



Neeraj Kulkarni
Backend Developer



Janvi Ramani
Backend Developer



Anvai Patil
Frontend Developer



Dhruvil Shah
Cloud Engineer



Varun Patel
Full Stack Developer

Problem Statement

Using current scrum application , we can see that there can be end date failure in which people fail to finish the project. There can be situation such that people can be cooperative or committed.

Sometimes daily meetings can frustrate team members and they do not like to perform daily meetings.

Using the remote or onsite project, there can be situation such that one person transfer to another company in middle of project. In this situation, it is difficult to complete project and group will have negative impact.

Project Description

Easify Overview

We are designing an application called Easify. Easify is an application that helps you manage scrum-based projects easily and effectively.

To manage the project, Easify will provide Product Backlog management and Sprint Backlog management features. In addition, users can use Easify's Share Images and Chat features to share each other work and thoughts.

The Calendar feature is there so that users can plan their work. Users can use the Activity Map feature to understand the project workflow and estimate the users' workflow.

Personas

Persona - 1:



Name: John

Age: 45

Post: Product Owner

Currently, John is working from home as the owner of the product developed by the team. He is 45 years old and he has a family. It is his duty to ask the scrum master about the progress of the product. It is his responsibility to maintain the system and to determine if the product design will be completed on time. Easify gives him the ability to see the progress and track the work of his team. He can offer suggestions right away through this tool.

Persona-2:



Name: David

Age: 35

Post: Scrum Master

David manages a team of five people. The team isn't located in one city, so offline meetings are impossible. With Easify, he can view the progress of tasks and see the daily or weekly report. Additionally, he can prioritize the task so it can be worked on by the development team.

Persona-3



Name: Olivia

Age: 29

Post: Developer

Olivia is part of a team. She needs to develop a system and report daily to the scrum master. She wants to maintain unity and support within the team. Team members can ask for help from one another. Using Easify, users can share the resources instantly and they don't even have to wait. The app lets them chat and share all the work and discuss their problems. Through this app, they can test and can provide the feedback to programmer.



MVP



Authentication

Register - Login - Logout

Users can Register in the system by entering name, email and password. They can login into the system by entering correct email and password. Users can Log out from the system.



Project

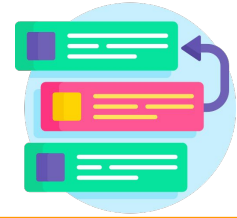
Creation - Settings

Users can create projects by giving unique name and selecting project profile photo. Users can share the projects with other members.



Product Backlog

Users can add items to their product backlog. They can modify the item's type, priority and sprint. Users can also delete the backlog item from the product backlog.



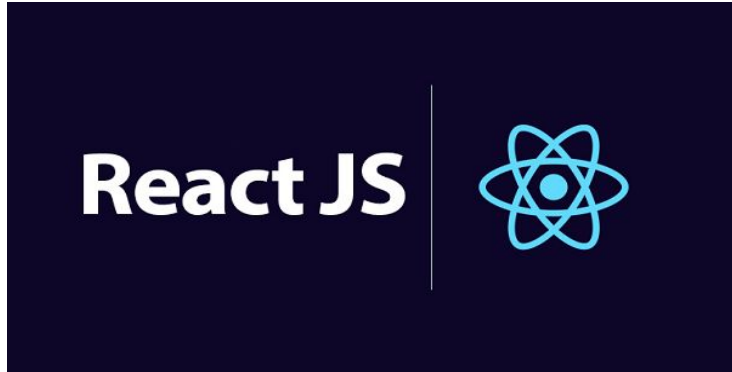
Sprint - Sprint Backlog

Users can create sprint by giving name and duration. They can add items from product backlog to sprint backlog. Users can also delete the sprint backlog item or also can delete the sprint.

Technologies and Design



Technologies - Front-end



React JS is a front-end JavaScript library for building user interfaces based on UI components. React allows us to create reusable UI components.

HTML, CSS and JavaScript work together to form the front-end design of a website by applying information that affects content, style and interactivity of a site.



Technologies - Back-end



Laravel is a back-end PHP-based framework. It's an entirely server-side framework that manages data with the help of Model-View-Controller (MVC) design.



PHP is known as a general-purpose scripting language. It was among the first server-side languages.



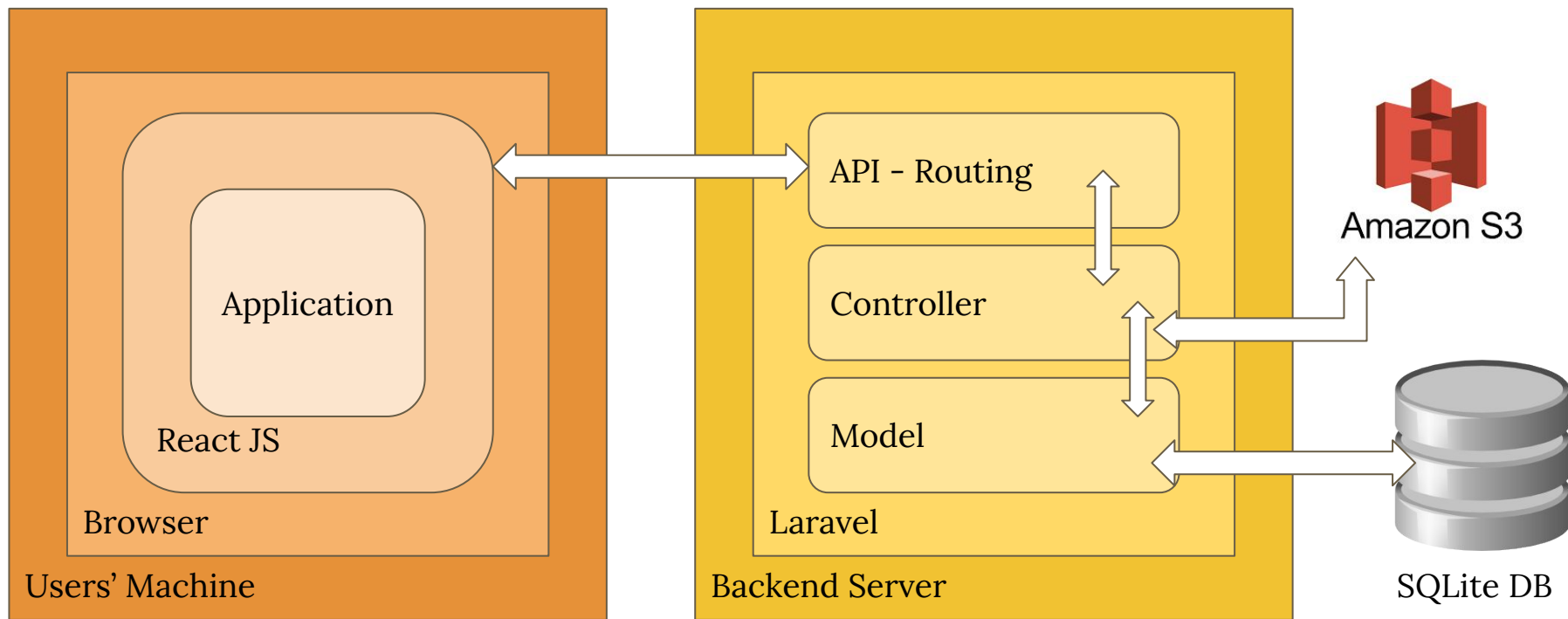
SQLite DB Browser is a high quality, visual tool to create, design, and edit database files compatible with SQLite.

Technologies - Cloud



Amazon Simple Storage Service (Amazon S3) is a service offered by Amazon Web Services (AWS) that provides object storage through a web service interface. It offers scalability, data availability, security, and performance.

Design Architecture



Sprint 5 Recap



Sprint - 5 User Stories

Total 10 Story Points

EAS-25 Points - 5

User Story: As a product owner or scrum master or developer or creator, I want to be able to see the calendar so that I can plan our work

Acceptance Criteria: Given product owner or scrum master or developer or creator is on calendar screen, when he/ she selects any month or date, then system should display details

EAS-26 Points - 5

User Story: As a product owner or scrum master or developer or creator, I want to be able to add/delete task on any date so that I can put/remove the deadline for that task

Acceptance Criteria: Given product owner or scrum master or developer or creator is on calendar screen, when he/ she click on any date and enter/modify some event, then the system should display the changes made on that date to all users with whom the project is shared

Tasks

EAS-62: Develop Calendar screen

EAS-63: Design backend APIs and controllers to perform CRUD operations on calendar events data

EAS-64: Integrate Calendar with Project screens and APIs

EAS-65: Testing for Sprint - 5

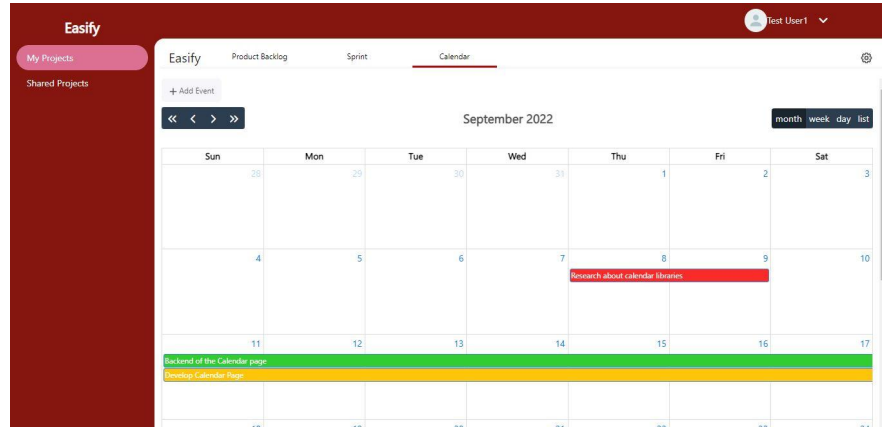
EAS-66: Create presentation for Deliverable - 5

EAS-67: Create presentation video and demo for Deliverable - 5

EAS-68: Update Tech Paper

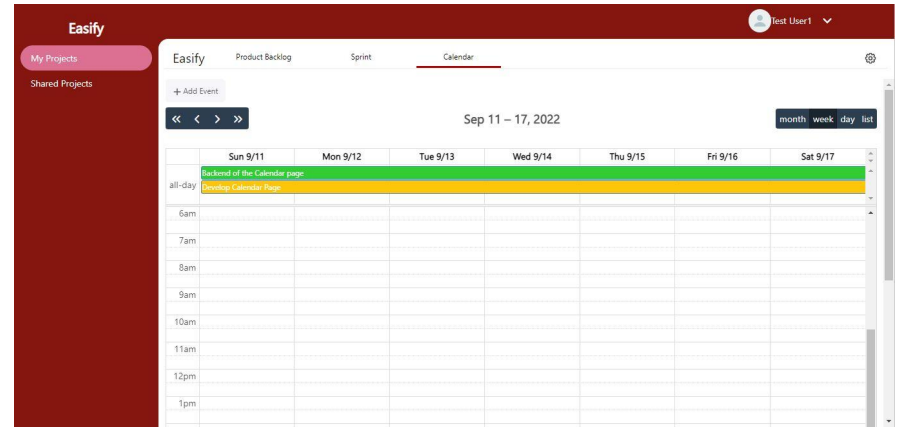
EAS-69: Update Github Wiki

Sprint - 5: Results



Calendar Month View

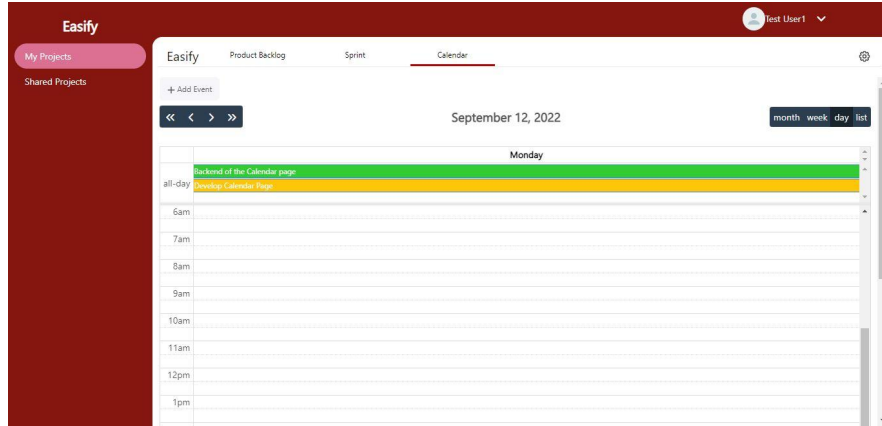
Users can see all the events of selected month. It is a default calendar view.



Calendar Week View

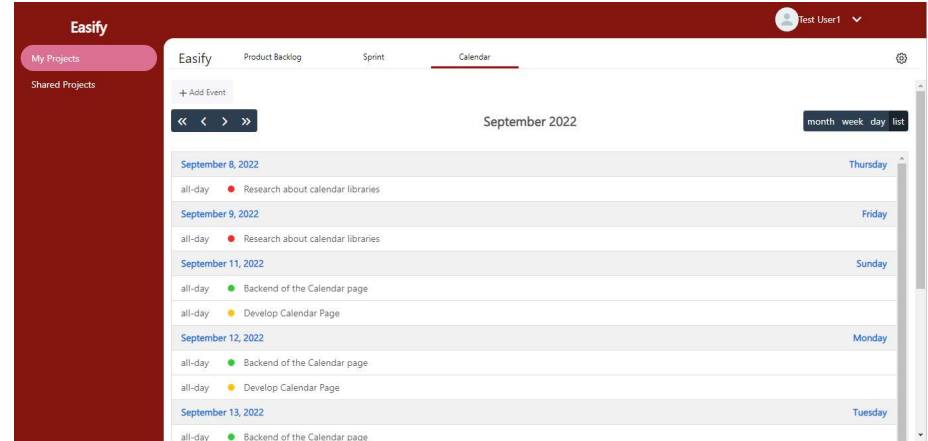
Users can see all the events of selected week. Events are listed by day and time.

Sprint - 5: Results Continue...



Calendar Day View

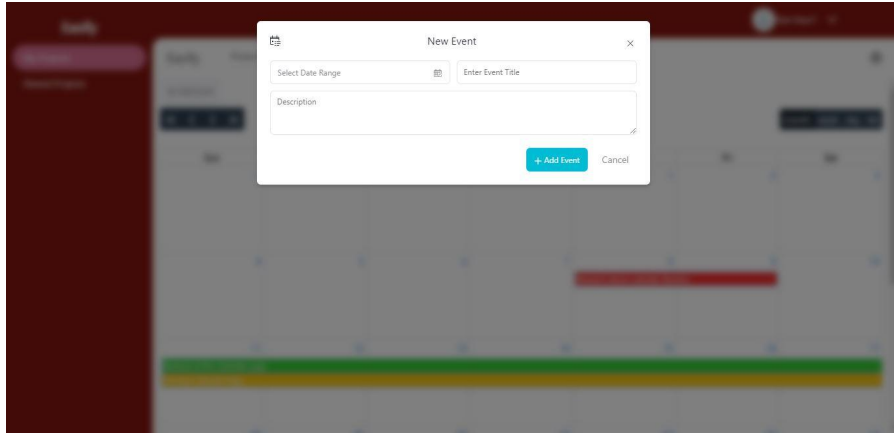
Users can see all the events and their time of selected Day.



Calendar List View

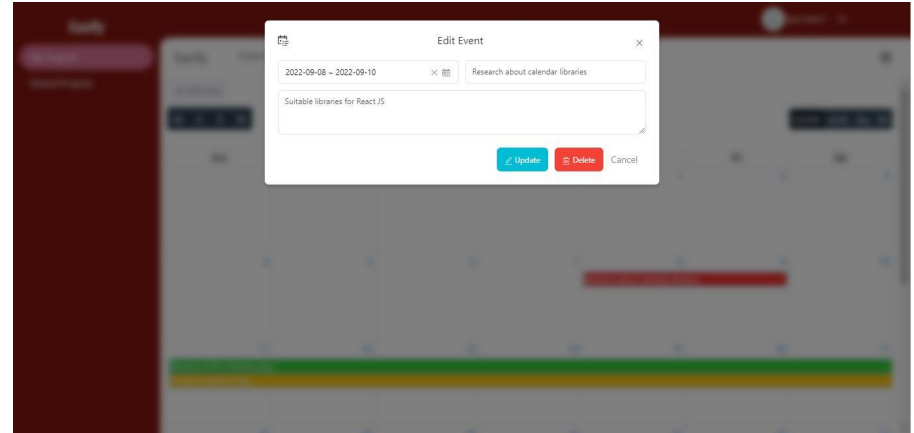
Users can see list of events of selected month. It is list view.

Sprint - 5: Results Continue...



Calendar Add Event

Users can add an event by selecting date range and giving title and description for the event.



Calendar Update-Delete Event

Users can edit event details and also can delete the event.

Sprint 5

- Completed feature: Calendar
- We developed the front-end and back-end for Calendar feature
 - Easify users can now create events by providing date range, title and description to plan their work
 - Also modify events by dragging from one date to another.

Sprint 6

- Completed feature: Attachment, Activity Map
- Attachment feature:
 - Easify users can upload the photos to Easify and can preview them
 - Other project members can see the photos and also download it
- Activity Map feature:
 - Easify users can create activity maps for their projects and can also download them

Improvement from the Professor's Feedback

- 1) Explain more about roles
- 2) Avoid bullet points. Write in the essay or give numbers.
- 3) In MVP, write features name and functionalities.
- 4) In Product Backlog, show user stories that are added or removed.
- 5) Don't show tasks in committed artifacts.
- 6) Give id to test cases.
- 7) For burndown charts, use days vs story points and remove bars, use only lines.
- 8) In the Velocity chart, show the average velocity also. Put ratio, how much % you completed in that sprint
- 9) Put a slide for the committed/ completed ratio.
- 10) Put results of the current sprint with that sprint details, not after future work. Write some information about the screenshot (results).
- 11) Follow the slide order given in the checklist.

Product Backlog

User Story: As a developer or creator, I want to be able to upload the images so that I can save my outcome or a problem

Acceptance Criteria: Given developer or creator is on attachment screen, when user click on upload image and try to upload image from personal device, then system should accept image files

User Story: As a developer or creator, I want to be able to perform some operations (like fullscreen preview, rotate, zoom in-out, flip, download) on the images so that I can perform these operations within the system itself

Acceptance Criteria:

- Given developer or creator is on attachment screen, when user click on the full screen mode, then system should display the image full screen
- Given developer or creator is on attachment screen, when user click on the rotate or flip mode, then system should rotate or flip the image accordingly
- Given developer or creator is on attachment screen, when user click on the zoom in & out mode, then system should zoom the image accordingly
- Given developer or creator is on attachment screen, when user click on the download button, then system should download the image.

User Story: As a developer or creator, I want to be able to see the images uploaded by me or other members so that I can see which photos are uploaded

Acceptance Criteria: Given developer or creator is on attachment screen, then system should display the files uploaded by all project members

User Story: As a developer or creator, I want to be able to delete the uploaded images so that I can remove unnecessary/ wrong photos

Acceptance Criteria: Given developer or creator is on attachment screen, when user click on the delete image, then system should delete the image from the database

Product Backlog Continue

User Story: As a product owner or scrum master or creator, I want to be able to create user activity map for the project so that I can understand the user activities better

Acceptance Criteria:

- Given product owner or scrum master or creator is on activity map screen, when user click on create node for the activity map, then system should create the node
- Given product owner or scrum master or creator is on activity map screen, when user connects the nodes for the activity map, then system should connects the node

User Story: As a product owner or scrum master or creator, I want to be able to edit/ delete user activity map so that I can modify the user activities

Acceptance Criteria:

- Given product owner or scrum master or creator is on activity map screen, when user edit the node or edge, then system should modify the node or edges details in database
- Given product owner or scrum master or creator is on activity map screen, when user delete the node or edge, then system should delete the node and connected edges from the database

User Story: As a product owner or scrum master or creator, I want to be able to download user activity map so that I can share it with other people

Acceptance Criteria: Given product owner or scrum master or creator is on activity map screen, when user click on download activity map, then system should download the activity map

User Story: As a product owner or scrum master or developer or creator, I want to be able to see the chat group for the projects so that I can chat with others about the project

Acceptance Criteria: Given product owner or scrum master or developer or creator is on Chat screen, then system should display the project groups

Product Backlog Continue

User Story: As a product owner or scrum master or developer or creator, I want to be able to send messages in project group so that I can notify others about tasks or bugs

Acceptance Criteria: Given product owner or scrum master or developer or creator is on Chat screen, when user type any message and click on send, then system should send the messages to project group

User Story: As a product owner or scrum master or developer or creator, I want to be able to receive the messages from project group so that we can interact with each other and keep track of the work

Acceptance Criteria: Given product owner or scrum master or developer or creator is on Chat screen, when user click on any project group, then system should display all the messages which are send by the user or others

User Story: As a new user, I want to be able to receive authentication email so that the system can authenticate me

Acceptance Criteria:

- Given user entered right OTP, when user click on register button, then account should be created
- Given user entered wrong OTP, when user click on register button, then system has to display error message

User Story: As a registered user, I want to be able to request for change the password if I forgot it so that I don't lose my account and data

Acceptance Criteria: Given user forgot the password, when user click on forgot password, then system should ask for new password, confirm password and OTP and user should receive OTP through email

Product Backlog Continue

User Story: As a user, I want to be able to edit my details such as name and profile photo so that I can edit my profile

Acceptance Criteria:

- Given user is on profile page, when user click on edit photo and try to upload image from personal device, then system should accept image file
- Given on profile page and name field is empty, when user click on update profile, then system should display error message
- Given on profile page user did not select any photo, when user click on update profile, then system should take default profile avatar photo

User Story: As a creator of the project, I want to be able to change the project profile photo, so that I can update project photo

Acceptance Criteria:

- Given user is creator of the project, when user change the photo, then system should accept image file and photo should be updated in database
- Given user is not creator of the project, when user try to change project settings, then system should not allow to change the project settings

User Story: As a user, I want to be able to change my password so that I can keep my account secure

Acceptance Criteria: Given user is on profile page, when user click on change password, then system should ask for new password, confirm password and OTP and user should receive OTP through email

Sprint 6



Sprint - 6: Committed and Completed Artifacts

User Story: As a developer or creator, I want to be able to upload the images so that I can save my outcome or a problem

Acceptance Criteria: Given developer or creator is on attachment screen, when user click on upload image and try to upload image from personal device, then system should accept image files

EAS-70
Points - 3

User Story: As a developer or creator, I want to be able to see the images uploaded by me or other members so that I can see which photos are uploaded

Acceptance Criteria: Given developer or creator is on attachment screen, then system should display the files uploaded by all project members

EAS-71
Points - 2

User Story: As a developer or creator, I want to be able to perform some operations (like fullscreen preview, rotate, zoom in-out, flip, download) on the images so that I can perform these operations within the system itself

Acceptance Criteria:

- Given developer or creator is on attachment screen, when user click on the full screen mode, then system should display the image full screen
- Given developer or creator is on attachment screen, when user click on the rotate or flip mode, then system should rotate or flip the image accordingly
- Given developer or creator is on attachment screen, when user click on the zoom in & out mode, then system should zoom the image accordingly
- Given developer or creator is on attachment screen, when user click on the download button, then system should download the image.

EAS-72
Points - 5

User Story: As a developer or creator, I want to be able to delete the uploaded images so that I can remove unnecessary/wrong photos

Acceptance Criteria: Given developer or creator is on attachment screen, when user click on the delete image, then system should delete the image from the database

EAS-73
Points - 2

Sprint - 6: Committed and Completed Artifacts Continue

User Story: As a product owner or scrum master or creator, I want to be able to create user activity map for the project so that I can understand the user activities better

Acceptance Criteria:

- Given product owner or scrum master or creator is on activity map screen, when user click on create node for the activity map, then system should create the node
- Given product owner or scrum master or creator is on activity map screen, when user connects the nodes for the activity map, then system should connects the node

**EAS-74
Points - 5**

**Total 22 Story Points
100% Completed**

**EAS-76
Points - 2**

User Story: As a product owner or scrum master or creator, I want to be able to download user activity map so that I can share it with other people

Acceptance Criteria: Given product owner or scrum master or creator is on activity map screen, when user click on download activity map, then system should download the activity map

**EAS-75
Points - 3**

User Story: As a product owner or scrum master or creator, I want to be able to edit/ delete user activity map so that I can modify the user activities

Acceptance Criteria:

- Given product owner or scrum master or creator is on activity map screen, when user edit the node or edge, then system should modify the node or edges details in database
- Given product owner or scrum master or creator is on activity map screen, when user delete the node or edge, then system should delete the node and connected edges from the database

Sprint - 6: Sprint Backlog

ID	Item	Priority	Story Points	Status
EAS-70	As a developer or creator, I want to be able to upload the images so that I can save my outcome or a problem	Mid	3	Done
EAS-71	As a developer or creator, I want to be able to see the images uploaded by me or other members so that I can see which photos are uploaded	Mid	2	Done
EAS-72	As a developer or creator, I want to be able to perform some operations (like fullscreen preview, rotate, zoom in-out, flip, download) on the images so that I can perform these operations within the system itself	Mid	5	Done
EAS-73	As a developer or creator, I want to be able to delete the uploaded images so that I can remove unnecessary/ wrong photos	Mid	2	Done
EAS-74	As a product owner or scrum master or creator, I want to be able to create user activity map for the project so that I can understand the user activities better	Mid	5	Done
EAS-75	As a product owner or scrum master or creator, I want to be able to edit/ delete user activity map so that I can modify the user activities	Mid	3	Done
EAS-76	As a product owner or scrum master or creator, I want to be able to download user activity map so that I can share it with other people	Mid	2	Done
EAS-77	Develop Attachment Screen	High	NA	Done

Sprint - 6: Sprint Backlog Continue

ID	Item	Priority	Story Points	Status
EAS-78	Design backend APIs and controllers to perform CRUD operations on Attachment data	High	NA	Done
EAS-79	Setup the AWS S3 bucket with Laravel Backend	Mid	NA	Done
EAS-80	Develop Activity Map Screen	High	NA	Done
EAS-80	Design backend APIs and controllers to perform CRUD operations on Activity Map data	High	NA	Done
EAS-81	Integrate Attachment and Activity Map with Project screens and Backend APIs	High	NA	Done
EAS-82	Testing for Sprint - 6	Mid	NA	Done
EAS-83	Create presentation for Deliverable - 6	Low	NA	Done
EAS-84	Create presentation video and demo video for Deliverable - 6	Mid	NA	Done
EAS-85	Update Tech Paper	Low	NA	Done
EAS-86	Update Github Wiki page	Low	NA	Done

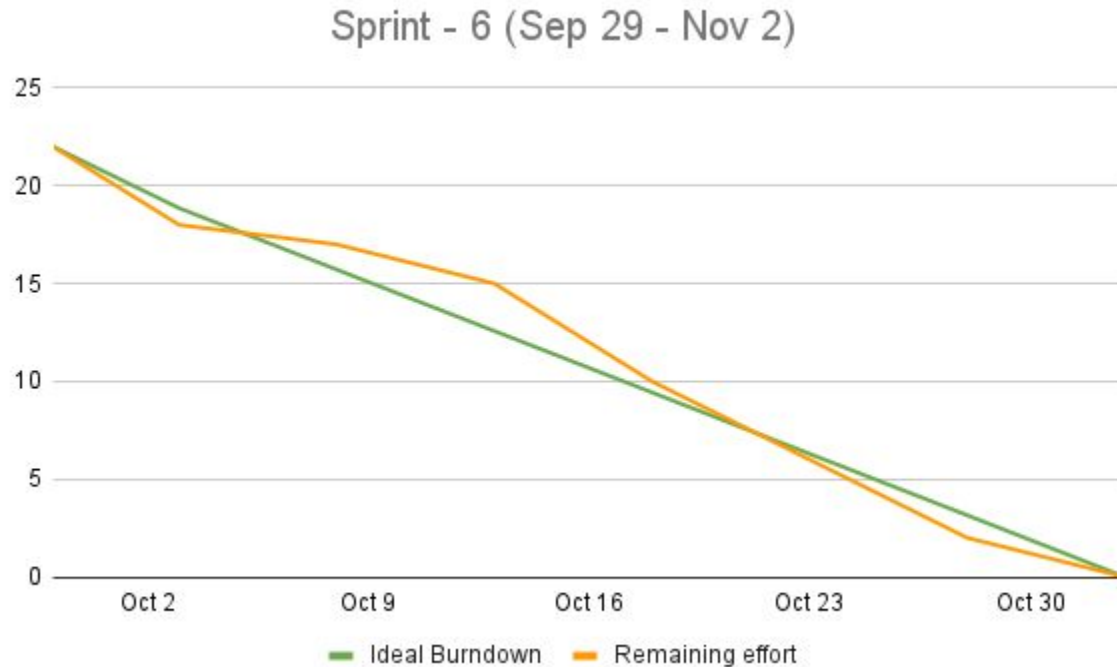
Sprint - 6: Test Cases

ID	User Story ID	Feature	Test Case	Expected Output	Actual Outcome	Status
EAST-30	EAS-70	Attachment	User wants to upload image	User should be able to upload the image	User is able to upload the images	Pass
EAST-31	EAS-71	Attachment	User wants to see all the uploaded images	User should be able to see all the uploaded the images	User is able to see the uploaded the images	Pass
EAST-32	EAS-72	Attachment	User wants to see the image in fullscreen mode	User should be able to see the image in fullscreen mode	User is able to see the image in fullscreen mode	Pass
EAST-33	EAS-72	Attachment	User wants to rotate or flip the image	User should be able to rotate and flip the image	User is able to rotate and flip the image	Pass
EAST-34	EAS-72	Attachment	User wants to zoom in & out the image	User should be able to zoom in & out the image	User is able to zoom in & out the image	Pass
EAST-35	EAS-72	Attachment	User wants to download the image	User should be able to download the image	User is able to download the image	Pass
EAST-36	EAS-73	Attachment	User wants to delete the uploaded image	User should be able to delete the uploaded the image	User is able to delete the uploaded the image	Pass

Sprint - 6: Test Cases Continue

ID	User Story ID	Feature	Test Case	Expected Output	Actual Outcome	Status
EAST-37	EAS-74	Activity Map	User wants to create node for activity map	User should be able to create node for activity map	User is able to create node for activity map	Pass
EAST-38	EAS-74	Activity Map	User wants to connect the nodes for activity map	User should be able to connect the nodes for activity map	User is able to connect the nodes for activity map	Pass
EAST-39	EAS-75	Activity Map	User wants to edit the node or edge	User should be able to edit the node or edge	User is able to edit the node or edge	Pass
EAST-40	EAS-75	Activity Map	User wants to delete the node or edge	User should be able to delete the node or edge	User is able to delete the node or edge	Pass
EAST-41	EAS-76	Activity Map	User wants to download the activity map	User should be able to download the activity map	User is able to download the activity map	Pass

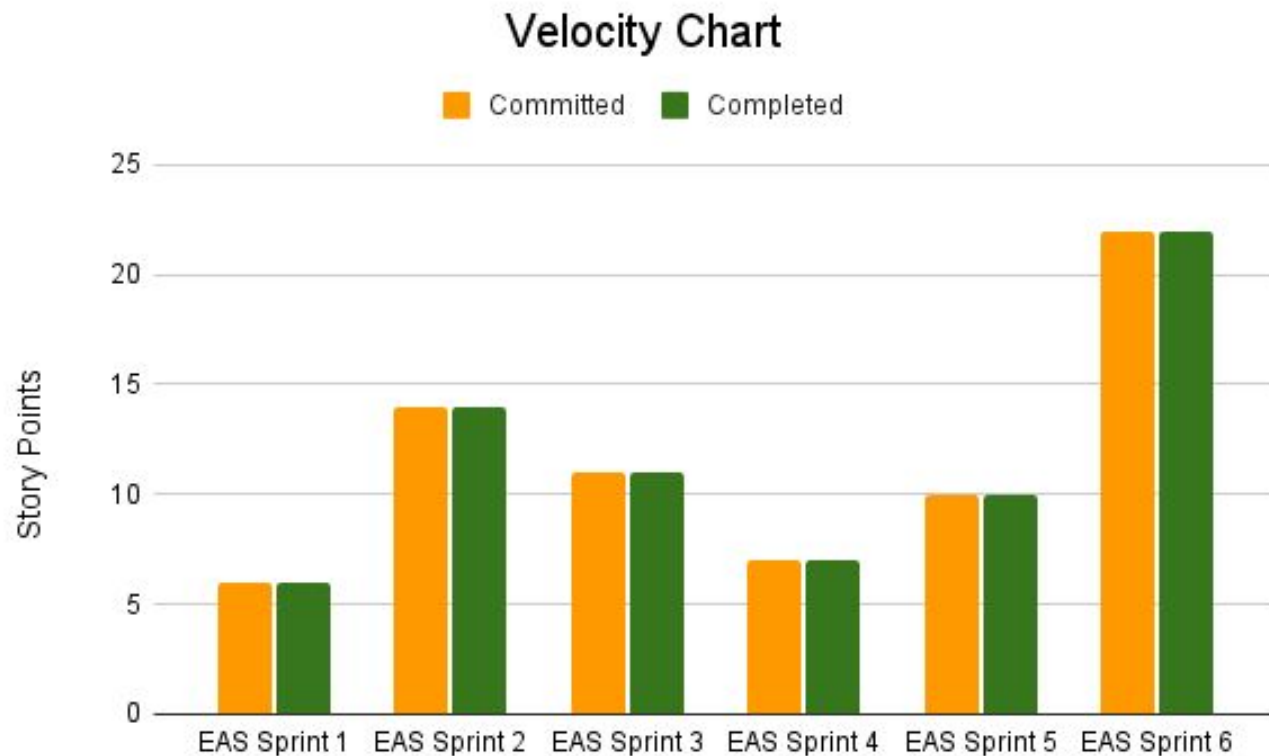
Sprint - 6: Burndown Chart



Velocity

Average Velocity

$$= (6+14+11+7+10+22)/6$$
$$= 11.67$$



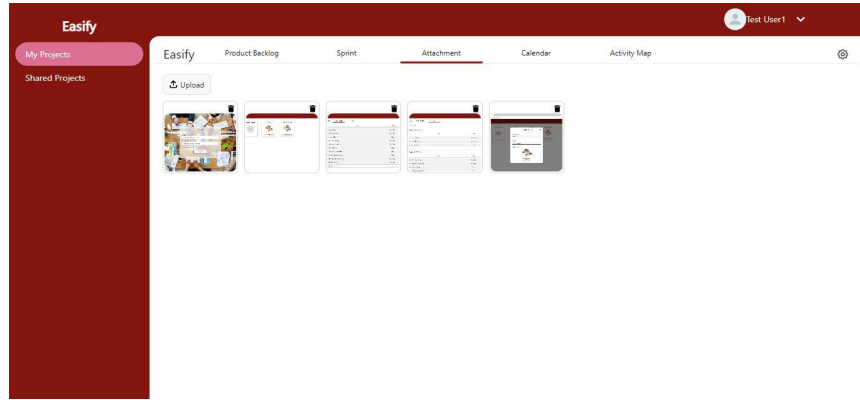
Completed Committed Ratio

Sprint	Committed	Completed	Ratio
EAS Sprint 1	6	6	100.00%
EAS Sprint 2	14	14	100.00%
EAS Sprint 3	11	11	100.00%
EAS Sprint 4	7	7	100.00%
EAS Sprint 5	10	10	100.00%
EAS Sprint 6	22	22	100.00%

Average Completed Committed
Ratio = 100%

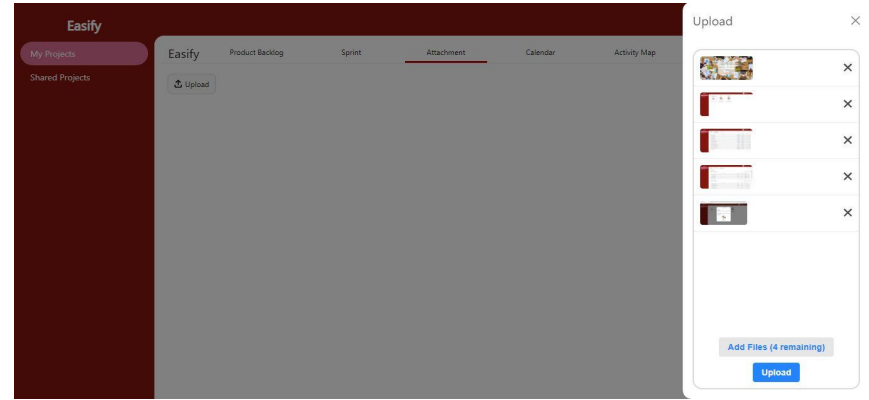
Current Completed Committed
Ratio (Sprint 6) = 100%

Sprint - 6: Results



Attachment Page

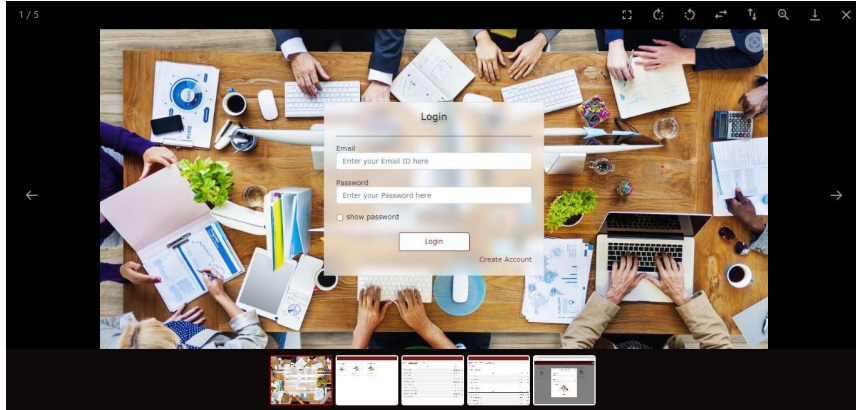
Users can see the uploaded photos by projects members. Also can delete the photo.



Attachment Page - Upload Dropzone

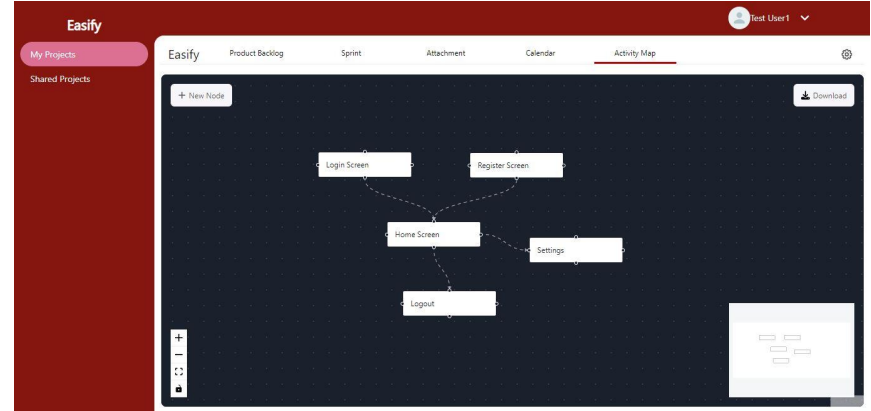
Users can drop or browse the photos in the right side dropzone. Max file limit is 9 files. Users can also cancel the uploading of each photo.

Sprint - 6: Results Continue



Attachment Page - Photo Preview

Users can preview the photos and also can rotate, flip horizontally-vertically, zoom in & out and download the photo.



Activity Map Page

Users can create activity maps for their projects. They can also zoom in & out and download the activity map.

Sprint - 6: Backend APIs

We have developed following APIs in order to complete Attachment and Activity Map feature:

- To upload attachment: `/api/attachment/create` POST
- To fetch attachment: `/api/attachment/fetch` POST
- To delete attachment: `/api/attachment/delete` POST
- To fetch activity map: `/api/activity-map/fetch` POST
- To update activity map: `/api/activity-map/update` POST

Retrospective

What went well

- Completed our work at schedule time

What can be improved

- Have to work faster on the research to catch up the schedule
- Team interactions can be improved

Action items

- Speed up the research to keep up schedule

Sprint - 7 User Stories

User Story: As a product owner or scrum master or developer or creator, I want to be able to see the chat group for the projects so that I can chat with others about the project

Acceptance Criteria: Given product owner or scrum master or developer or creator is on Chat screen, then system should display the project groups

User Story: As a product owner or scrum master or developer or creator, I want to be able to send messages in project group so that I can notify others about tasks or bugs

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User Story: As a product owner or scrum master or developer or creator, I want to be able to receive the messages from project group so that we can interact with each other and keep track of the work

Acceptance Criteria: Given product owner or scrum master or developer or creator is on Chat screen, when user click on any project group, then system should display all the messages which are send by the user or others

Group Wiki

<https://github.com/DV192/Stonecrusher/wiki>





Thank You

