
Easify

Team - 3

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

Guided By
Professor Henry Wong

Agenda



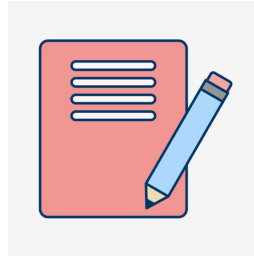
Introduction

- Team members
- Problem Statement
- Project Description
- Personas



Technologies and Design

- Front-end
- Back-end
- Cloud
- Architecture
- Activity Diagram



Sprint 1-7 recap & Sprint 8

- Sprint Backlog
- Test Cases
- Burndown Chart
- Velocity Chart
- Completed
- Committed Ratio
- Sprint 8 Results



Retrospective



Future work



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

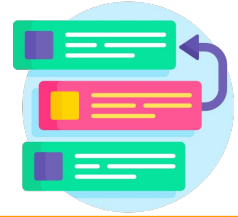
Creation - Settings

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.



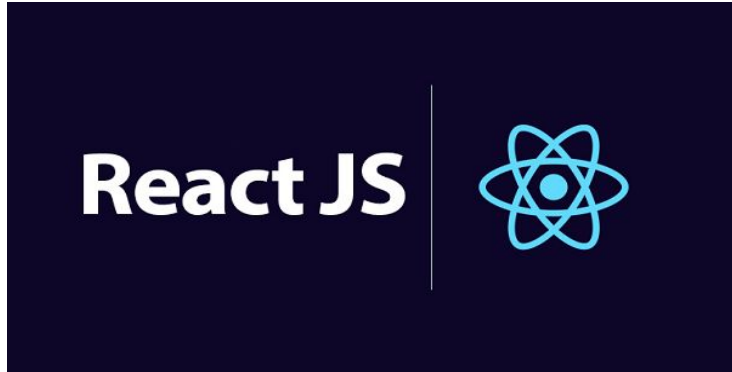
Sprint - Sprint Backlog

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.



MySQL is an open-source relational database management system. MySQL is ideal for storing application data, specifically web application data.

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.

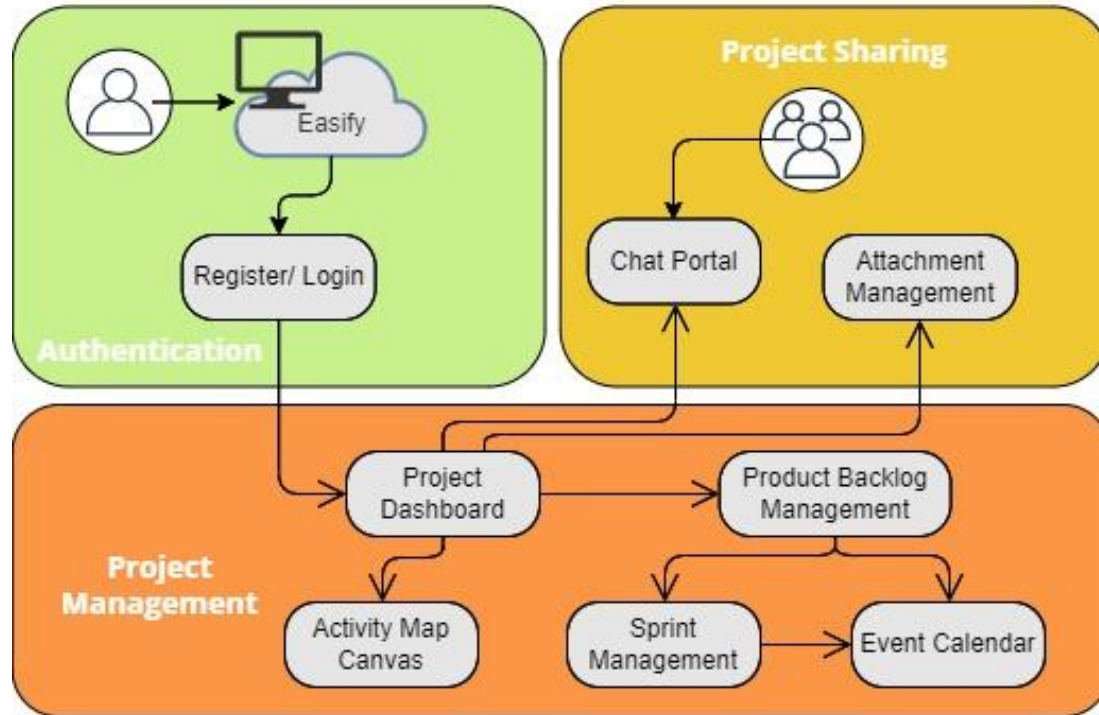


AWS Elastic Beanstalk is an orchestration service offered by AWS for deploying applications which organise various AWS services, including EC2, S3, CloudWatch, autoscaling, and Elastic Load Balancers.

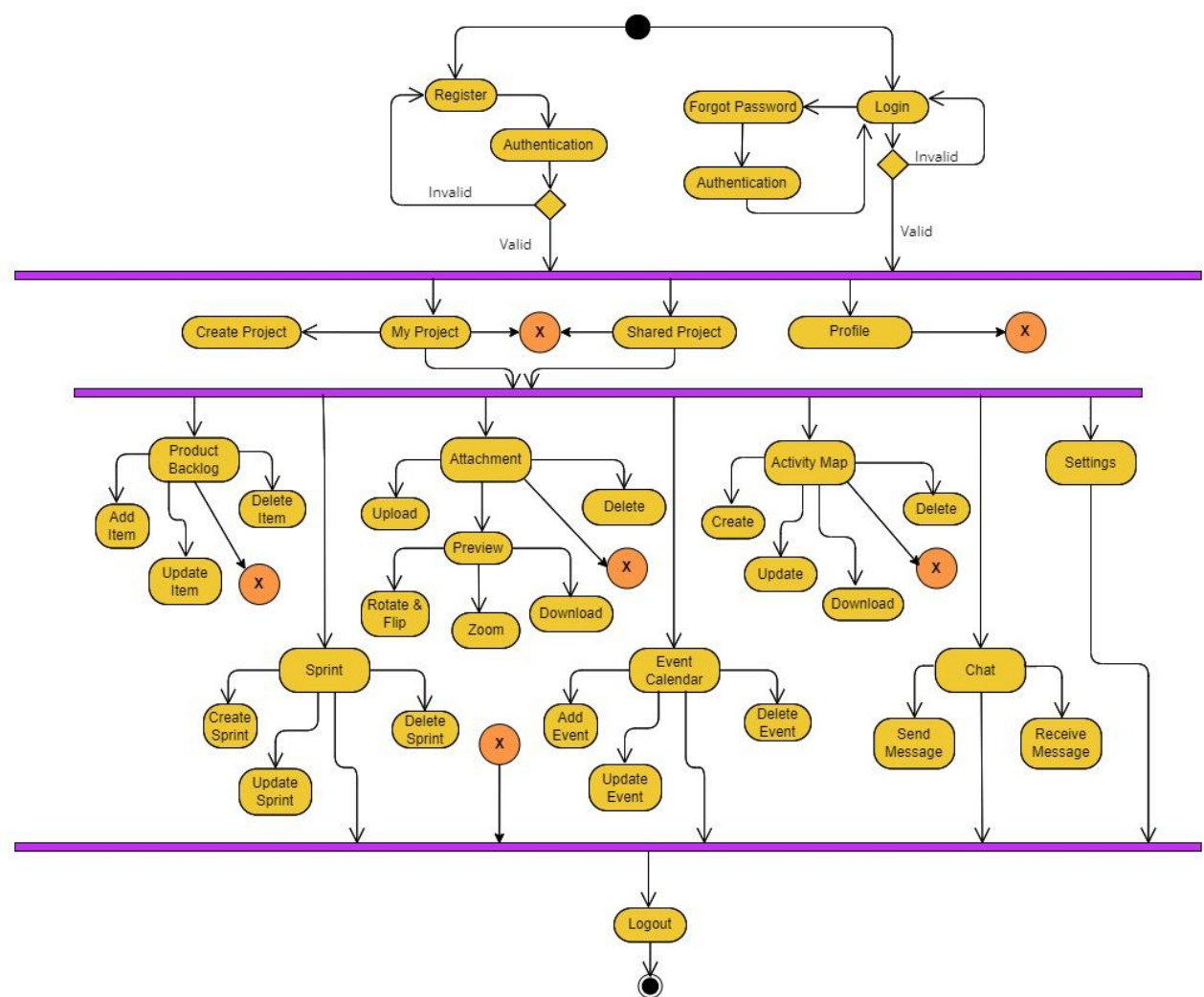


RDS is a distributed relational database service by AWS. It is a web service running "in the cloud" designed to simplify the setup, operation, and scaling of a relational database for use in applications.

Architecture



Activity Diagram



Sprint 1-4 Recap

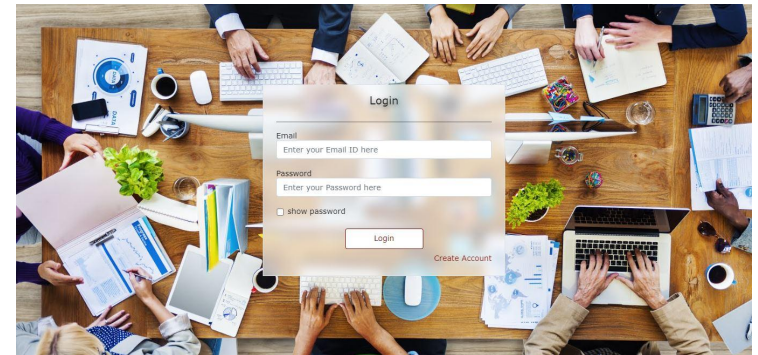


Sprint - 1 (Feb 19 - March 09)

ID	Item	Priority	Story Points	Status
EAS-29	Research for project topics	High	NA	Done
EAS-30	Study different tools and technologies for project	Mid	NA	Done
EAS-31	Create Deliverable - 1 presentation	Mid	NA	Done
EAS-32	Create Deliverable - 1 video	Mid	NA	Done
EAS-1	As a new user, I want to register my self so that I can create an account	High	3	Done
EAS-3	As a registered user, I want to login into the system with my email and password so that I can navigate to system's home screen	High	2	Done
EAS-5	As a user, I want to be able to logout from the system so that I can end my session	High	1	Done
EAS-38	Create Wiki Page and upload the Deliverable 1 documents	Mid	NA	Done



Screenshots of the Register Page

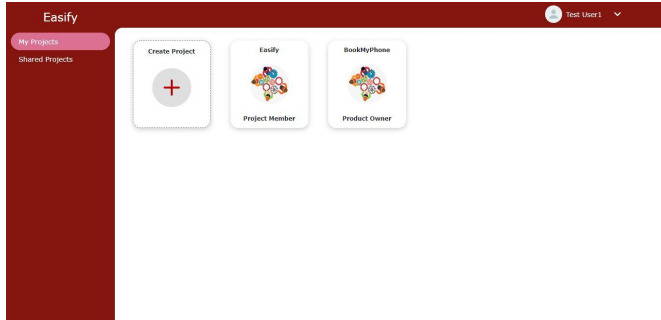


Screenshots of the Login Page

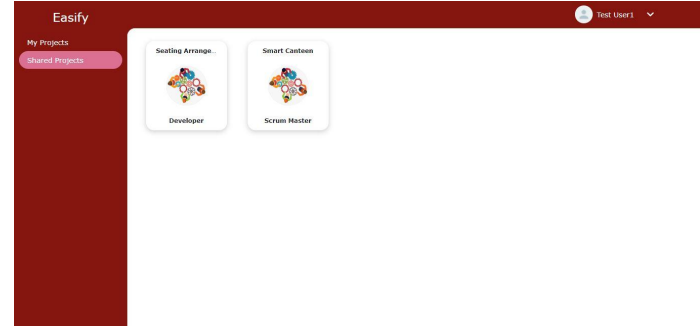
Sprint - 2 (March 10 - March 30)

ID	Item	Priority	Story Points	Status
EAS-9	As a creator of projects, I want to be able to see the projects that I have created so that I can start working on my projects	High	3	Done
EAS-10	As a member of any project, I want to be able to see the projects which are shared with me so that I can see the project details for my work	High	3	Done
EAS-11	As a user, I want to create a project so that I can start the work of the product	High	2	Done
EAS-12	As a creator of the project, I want to be able to share the project with other users so that they can see the project details	High	5	Done
EAS-14	As a creator of the project, I want to be able to set the roles of shared users so that all can know each others roles	Mid	1	Done
EAS-44	Integrate pages with backend	High	NA	Done
EAS-45	Create presentation for Deliverable - 2	Mid	NA	Done
EAS-46	Create video for Deliverable - 2	Mid	NA	Done
EAS-47	Update Github Wiki page	Mid	NA	Done

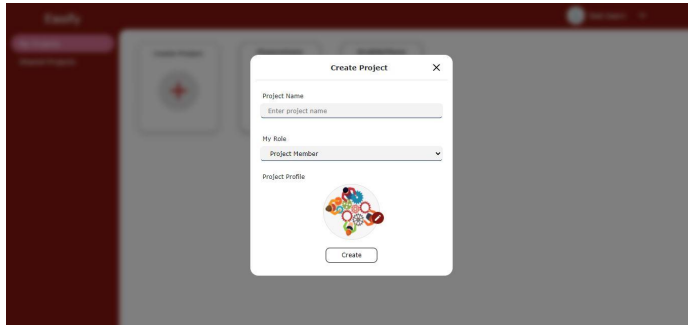
Sprint - 2: Results



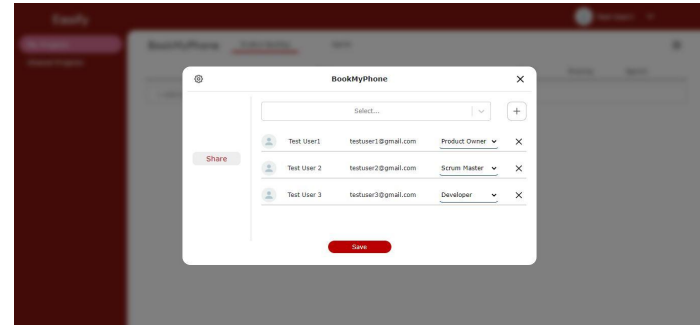
My Project Page



Shared Project Page



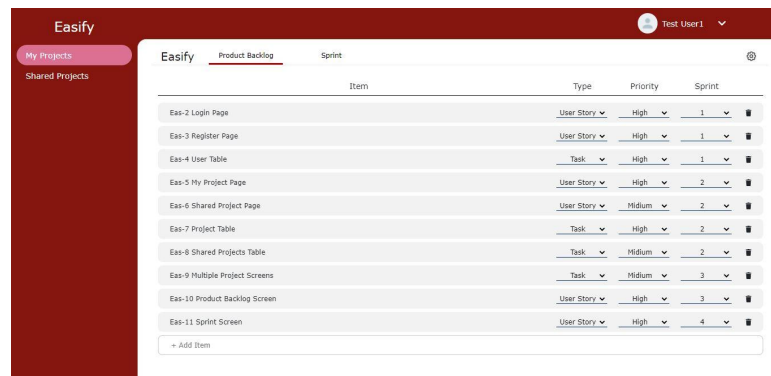
Create Project



Project Settings

Sprint - 3 (March 31 - April 21)

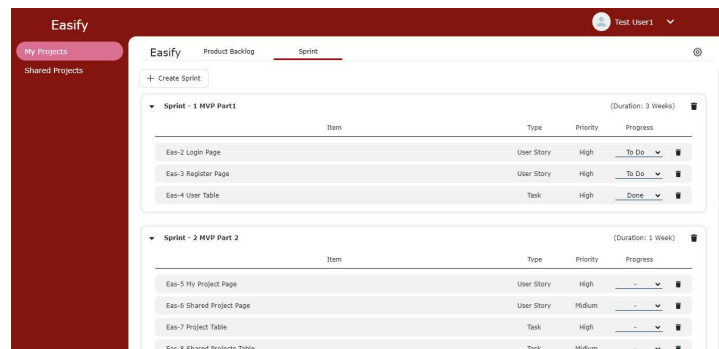
ID	Item	Priority	Story Points	Status
EAS-15	As a user, I want to be able to see the product backlog screen so that I can see the requirements of the project	High	5	Done
EAS-16	As a creator of the project or product owner, I want to be able to add/ modify tasks into the backlog so that I can list out functionalities of the project	High	3	Done
EAS-17	As a creator of the project, I want to be able to change the task's priority (low, medium, high) so that other members can see the priorities	High	2	Done
EAS-18	As a scrum master or developer or creator of the project, I want to be able to change the task's type (User Story, Task, Bug) so that other members can see the type of the tasks	Mid	1	Done
EAS-51	Integrate product backlog page with backend	High	NA	Done
EAS-52	Create tech paper for Deliverable - 3	Mid	NA	Done
EAS-53	Update Github Wiki page	Mid	NA	Done



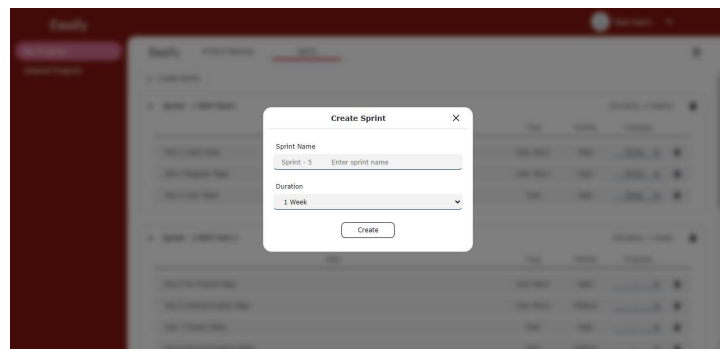
Product Backlog Page

Sprint - 4 (April 22 - May 5)

ID	Item	Priority	Story Points	Status
EAS-19	As a scrum master or creator of the project, I want to be able to create the sprint and the sprint backlog so that I can identify the work for the sprint	High	3	Done
EAS-20	As a scrum master or developer or creator of the project, I want to be able to add/ modify tasks to the sprint backlog so that I can list out the work for the sprint	High	3	Done
EAS-21	As a developer or creator of the project, I want to be able to change the task status (to do, in progress, done) so that other members can see the progress	High	1	Done
EAS-57	Integrate sprint page with backend	High	NA	Done
EAS-58	Create presentation for Deliverable - 4	Mid	NA	Done
EAS-59	Create video for Deliverable - 4	Mid	NA	Done
EAS-60	Create demo video of Easify	Mid	NA	Done
EAS-61	Update Github Wiki page	Mid	NA	Done



Sprint Page



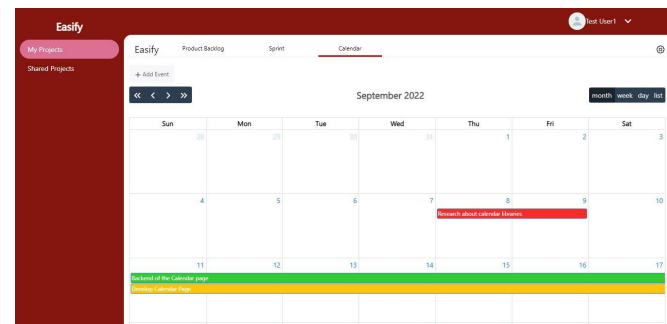
Create Sprint

Sprint 5-7 Recap

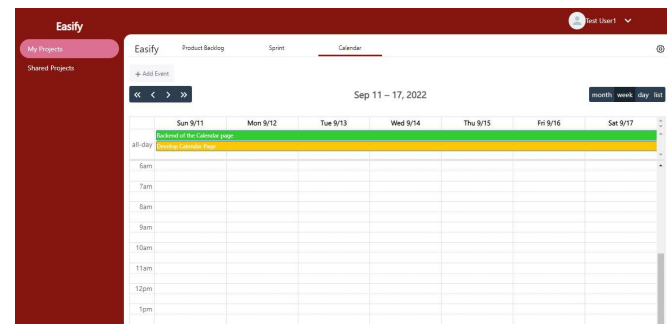


Sprint - 5 (Sep 8 - Sep 28)

ID	Item	Priority	Story Points	Status
EAS-25	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	Mid	5	Done
EAS-26	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	Mid	5	Done
EAS-64	Integrate Calendar with Project screens and APIs	High	NA	Done
EAS-65	Testing for Sprint - 5	Mid	NA	
EAS-66	Create presentation for Deliverable - 5	Low	NA	Done
EAS-67	Create presentation video and demo for Deliverable - 5	Mid	NA	Done
EAS-68	Update Tech Paper	Mid	NA	Done
EAS-69	Update Github Wiki page	Mid	NA	Done

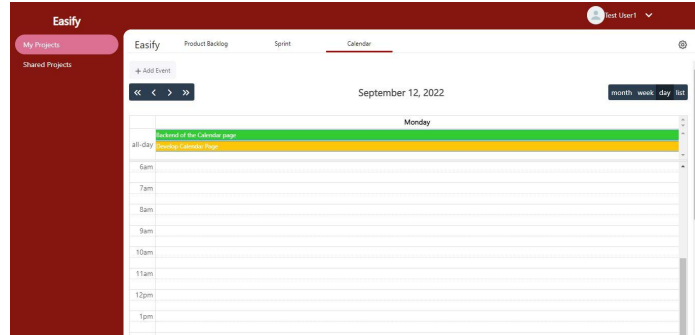


Calendar Month View

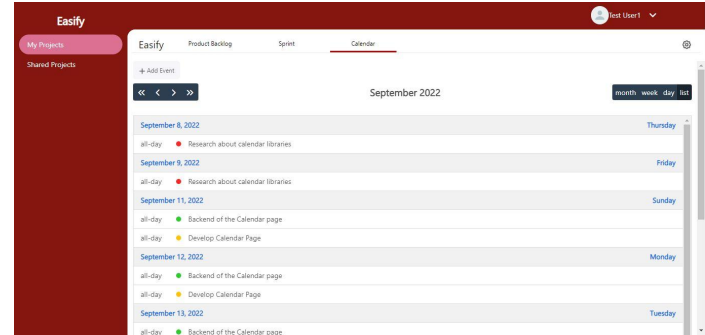


Calendar Week View

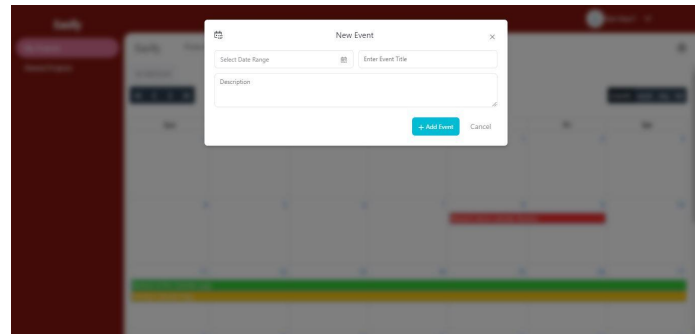
Sprint - 5: Results



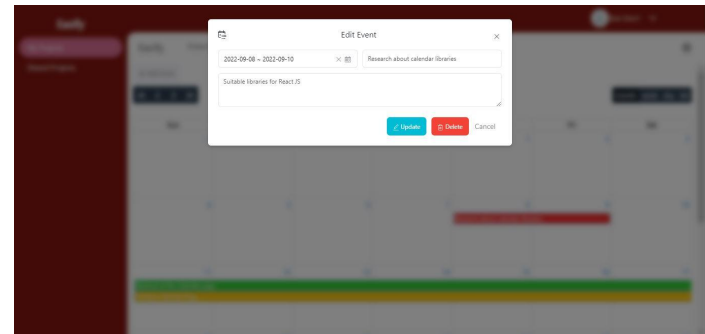
Calendar Day View



Calendar List View



Calendar Add Event

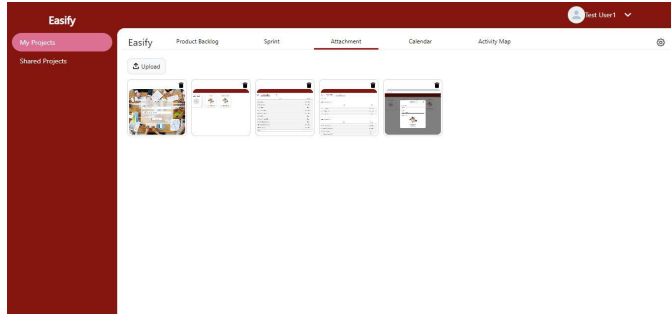


Calendar Update-Delete Event

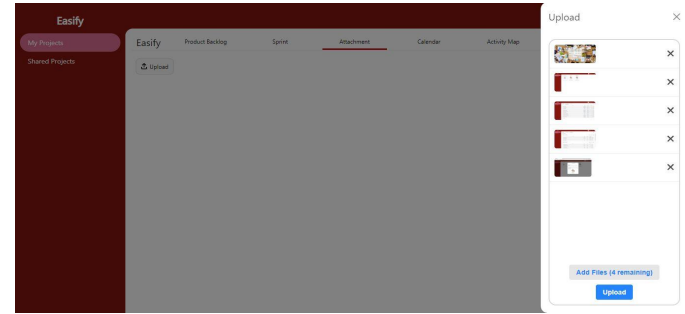
Sprint - 6 (Sep 29 - Nov 2)

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-79	Setup the AWS S3 bucket with Laravel Backend	Mid	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

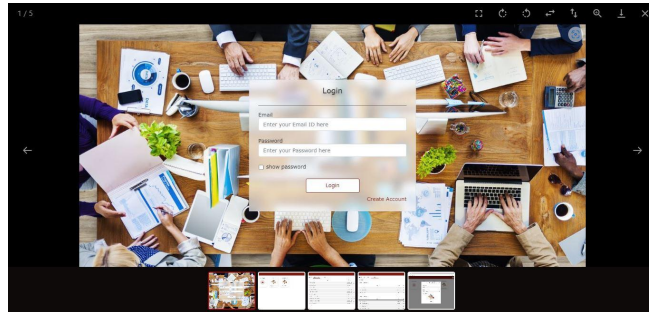
Sprint - 6: Results



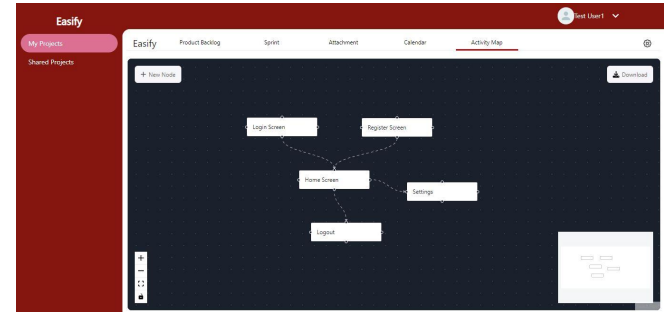
Attachment Page



Attachment Page - Upload Dropzone



Attachment Page - Photo Preview



Activity Map Page

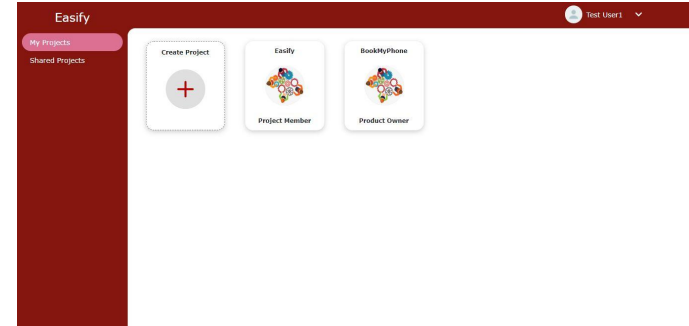
Sprint - 7 (Nov 3 - Nov 30)

ID	Item	Priority	Story Points	Status
EAS-87	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	Mid	3	Done
EAS-88	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	Mid	8	Done
EAS-89	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	Mid	8	Done
EAS-90	As a product owner or scrum master or developer or creator, I want to be able to see the previous messages of project chat group so that I can see the previously discussed things on the project chat group	Mid	2	Done
EAS-91	Redesign the UI	Mid	NA	Done
EAS-92	Research about different chat libraries supporting ReactJs	High	NA	Done
EAS-93	Integrate Chat Screen with Project screens and Backend APIs	High	NA	Done
EAS-94	Testing for Sprint - 7	Mid	NA	Done
EAS-95	Create presentation for Deliverable - 7	Low	NA	Done
EAS-96	Create presentation video and demo video for Deliverable - 7	Mid	NA	Done
EAS-97	Update Tech Paper	Low	NA	Done
EAS-98	Update Github Wiki page	Low	NA	Done

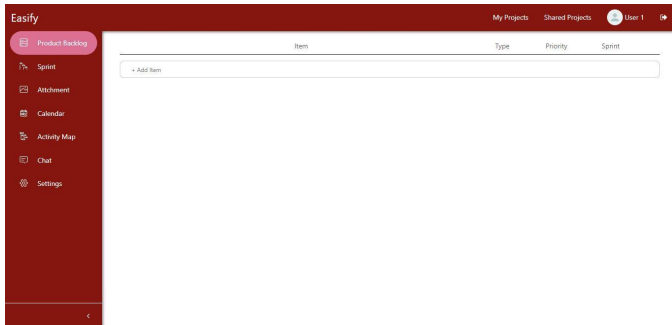
Sprint - 7: Results



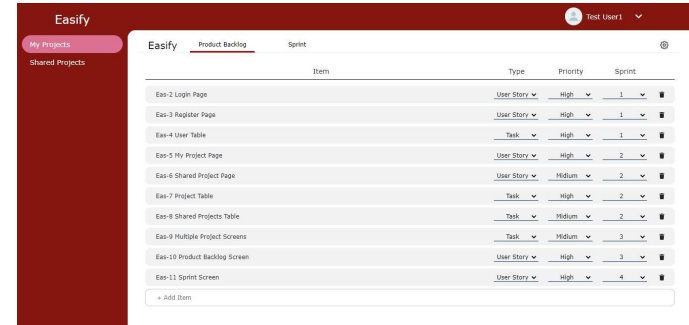
New Design My Project/ Shared Project Page



Old Design My Project/ Shared Project Page

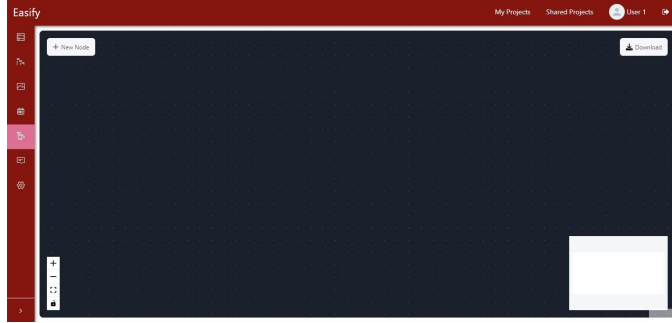


New Design of Project Subpages

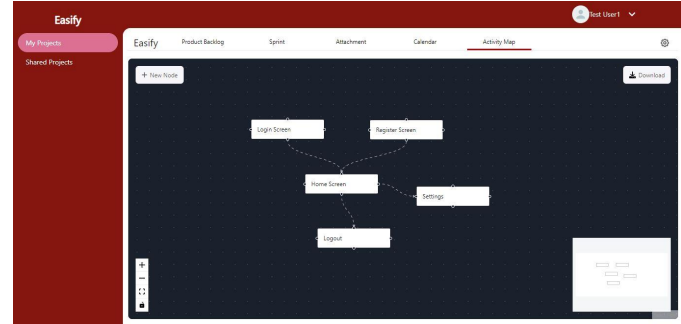


Old Design of Project Subpages

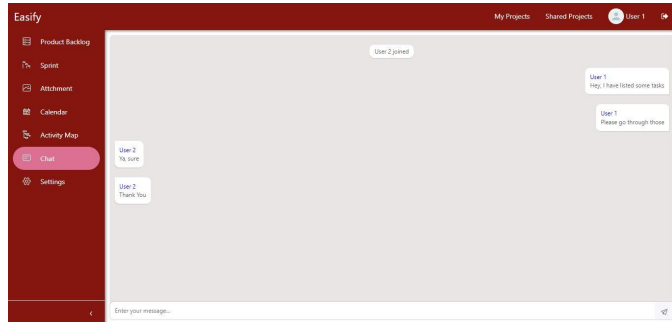
Sprint - 7: Results Continue



New design of Side Panel



Old design of Side Panel



Project Chat Page

Users can chat with shared members.
Each project has its own chat screen.

Sprint 7

- Completed feature: Chat
- New design
- We developed the frontend and backend for the Chat feature
 - Easify will create a chat group while creating the project
 - Easify users can chat with project members
 - Each project has its own chat screen
- Easify users can now open any feature by going to feature's unique url

Sprint 8

- Completed feature: Email Authentication, Forgot Password, Profile Settings, Project Settings
- Database live on AWS Server
- We developed the frontend and backend for the above feature
 - Easify users can change their password using email authentication
 - Project can be share-unshare with other users
 - Forgot password feature is also there

Improvement from the Professor's Feedback

- 1) Write slide number in the “Improvement from the Professor's Feedback” slide for each improvement - slide 33
- 2) Show current sprint user stories and future sprint user stories in product backlog - slide 34
- 3) Write more details in retrospective - slide 45

Product Backlog

ID	Feature	Item	Priority	Sprint	Status
EAS-2	Register	As a new user, I want to be able to receive authentication email so that the system can authenticate me	Mid	Sprint 8	Done
EAS-4	Login	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	Mid	Sprint 8	Done
EAS-6	Profile Settings	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	Low	Sprint 8	Done
EAS-7	Profile Settings	As a user, I want to be able to change my password so that I can keep my account secure	Low	Sprint 8	Done
EAS-13	Project Settings	As a creator of the project, I want to be able to change the project profile photo, so that I can update project photo	Mid	Sprint 8	Done

Sprint 8



Sprint - 8: Sprint Backlog

ID	Item	Priority	Story Points	Status
EAS-2	As a new user, I want to be able to receive authentication email so that the system can authenticate me	Mid	5	Done
EAS-4	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	Mid	5	Done
EAS-6	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	Low	3	Done
EAS-7	As a user, I want to be able to change my password so that I can keep my account secure	Low	3	Done
EAS-13	As a creator of the project, I want to be able to change the project profile photo, so that I can update project photo	Mid	3	Done
EAS-99	Integrate Authentication page with Register and Login screen and backend APIs	Mid	NA	Done
EAS-100	Integrate Profile Settings with main UI	Mid	NA	Done
EAS-101	Integrate Project Settings with project screens and backend APIs	Mid	NA	Done
EAS-102	Redesign the UI and redirections	Low	NA	Done
EAS-103	Host database on AWS	Mid	NA	Done
EAS-104	Testing for Sprint - 8	Mid	NA	Done
EAS-105	Create presentation for Deliverable - 8	Low	NA	Done
EAS-106	Create presentation video and demo video for Deliverable - 8	Mid	NA	Done
EAS-107	Update Tech Paper	Low	NA	Done
EAS-108	Update Github Wiki page	Low	NA	Done

Sprint - 8: Committed and Completed User Stories

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

EAS-2
Points - 5

EAS-6
Points - 3

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

EAS-4
Points - 5

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

Sprint - 8: Committed and Completed User Stories

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

EAS-7
Points - 3

EAS-13
Points - 3

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

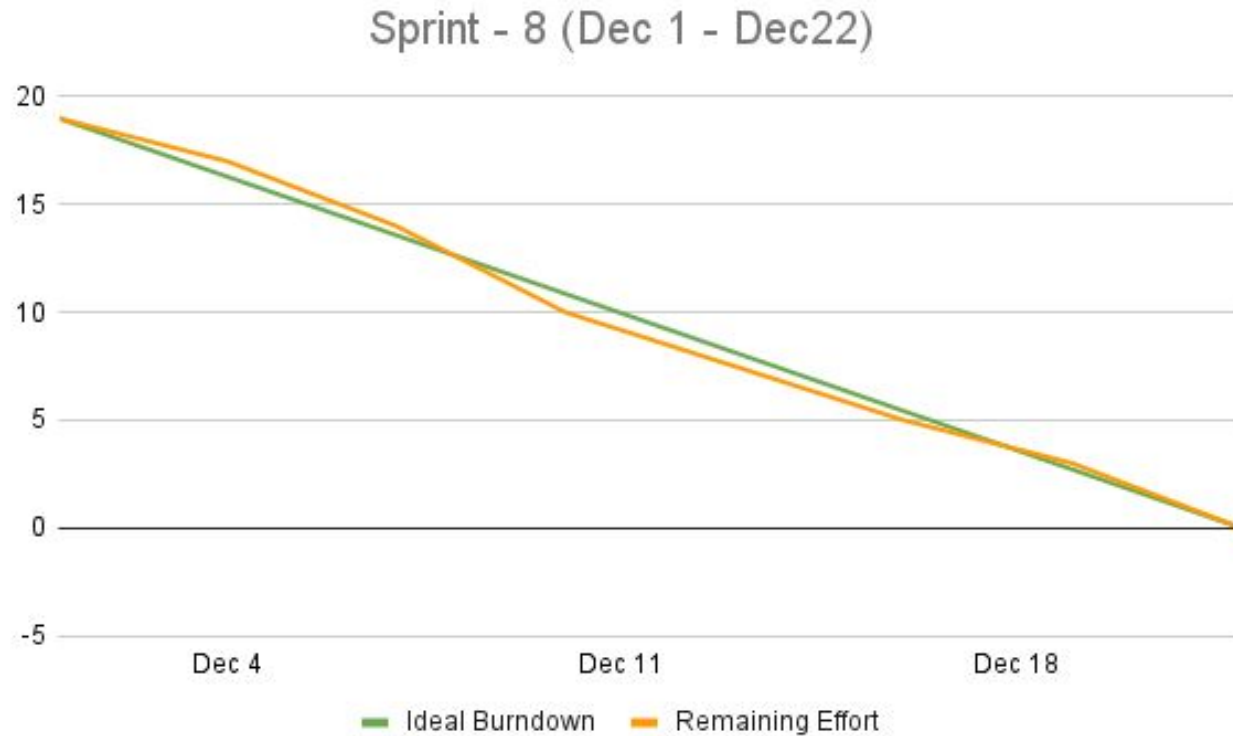
Acceptance Criteria:

- 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

Sprint - 8: Test Cases

ID	User Story ID	Feature	Test Case	Expected Output	Actual Outcome	Status
EAST-47	EAS-2	Register	User clicks on register button	User should be able to receive the OTP through email	User is able to receive the OTP through email	Pass
EAST-48	EAS-2	Register	Entered OTP is correct	Account should be created	User's account is created	Pass
EAST-49	EAS-2	Register	Entered OTP is incorrect	System should display the error message	System display the error message	Pass
EAST-50	EAS-4	Login	User clicks on forgot password	System should redirect to forgot password page	System redirects to forgot password page	Pass
EAST-51	EAS-6	Profile	User wants to edit profile photo	User should be able to edit profile photo	User is able to edit profile photo	Pass
EAST-52	EAS-6	Profile	On profile page, any required details is blank	Error message should be display	System display the error message	Pass
EAST-53	EAS-6	Profile	Photo not uploaded by user	System should display the default avatar photo	System display the default avatar photo	Pass
EAST-55	EAS-7	Profile	User clicks on change password	User should be able to receive the OTP through email	User is able to receive the OTP through email	Pass
EAST-56	EAS-13	Project Settings	User wants to change the project profile photo	User should be able to change the project profile photo	User is able to change the project profile photo	Pass

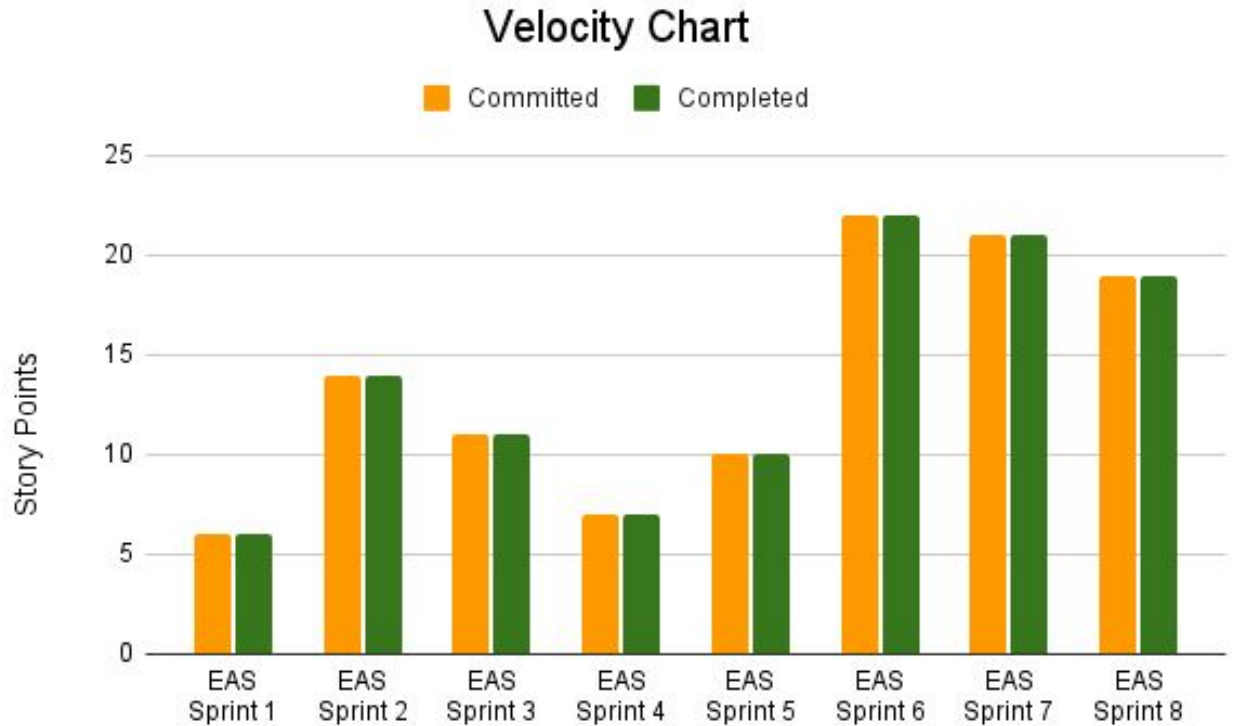
Sprint - 8: Burndown Chart



Velocity

Average Velocity

$$= (6+14+11+7+10+22+21+19)/8$$
$$= 13.75$$



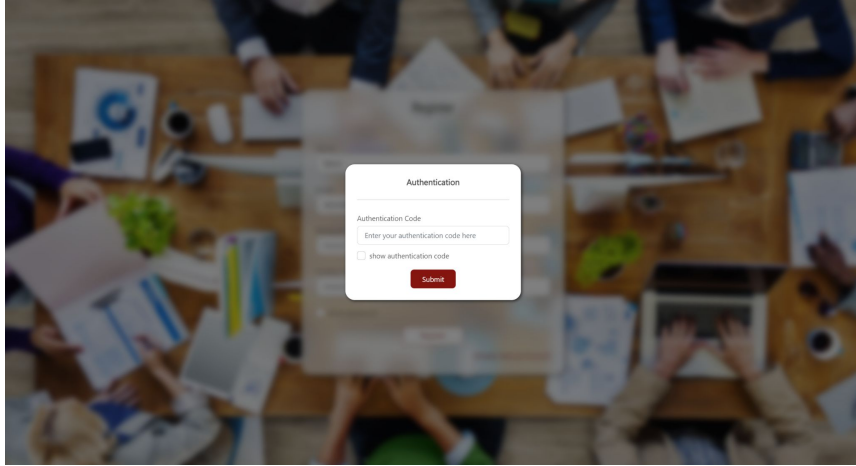
Completed Committed Ratio

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%
EAS Sprint 7	21	21	100.00%
EAS Sprint 8	19	19	100.00%

Average Completed Committed
Ratio = 100.00%

Current Completed Committed
Ratio (Sprint 8) = 100.00%

Sprint - 8: Results



Authentication Code Popup

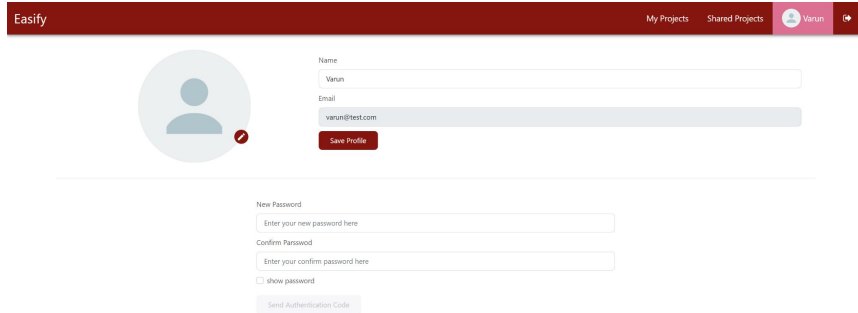
While registering in the Easify, users have to authenticate themselves by Email verification.



Forgot Password Page

Now users can get there account back using forgot password functionality.

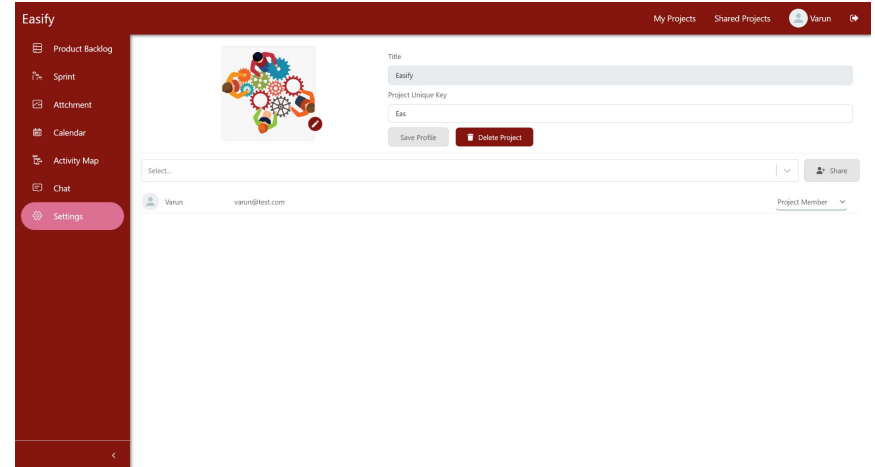
Sprint - 8: Results Continue



The screenshot shows the 'Profile Page' in the Easify application. The top navigation bar is dark red with the 'Easify' logo on the left and 'My Projects', 'Shared Projects', and a user profile icon labeled 'Varun' on the right. The main content area has a light gray background. On the left, there is a circular profile picture placeholder with a red checkmark. To its right, there are input fields for 'Name' (containing 'Varun') and 'Email' (containing 'varun@test.com'), followed by a 'Save Profile' button. Below this, there is a 'New Password' section with two input fields for 'Enter your new password here' and 'Enter your confirm password here', a 'show password' checkbox, and a 'Send Authentication Code' button.

Profile Page

User can edit their name and profile photo. Also they can change their password.



The screenshot shows the 'Project Setting Page' in the Easify application. The top navigation bar is dark red with the 'Easify' logo on the left and 'My Projects', 'Shared Projects', and a user profile icon labeled 'Varun' on the right. The main content area has a light gray background. On the left, there is a vertical sidebar with a dark red background and white text links: 'Product Backlog', 'Sprint', 'Attachment', 'Calendar', 'Activity Map', 'Chat', and 'Settings' (which is highlighted in pink). The main content area features a project card for 'Easify' with a colorful gear icon. The card has fields for 'Title' (Easify), 'Project Unique Key' (Eas), and buttons for 'Save Profile' and 'Delete Project'. Below the card, there is a 'Select...' dropdown menu, a 'Share' button, and a list of project members showing 'Varun' with email 'varun@test.com' and a 'Project Member' dropdown menu.

Project Setting Page

Users can edit the unique key and profile photo of the project. User can share-unshare or delete the project.

Retrospective

What went well

- Code merge with GitHub and AWS Elastic Beanstalk
- Learning and understanding about Agile and web technologies

What can be improved

- Team meetings are not properly scheduled because of examination
- Research and understanding about the cloud technologies

Action items

- Do more research on cloud technologies

Future Scope

In the future, we can add new features that allow users to create user stories and create subtasks.

Giving users more control over the project, assigning any particular task to someone, giving some users access to modify the project and its settings, etc.

A separate page to show recent working projects and project members.

Group Wiki

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





Thank You

