

PROJECT PRIORITIZATION

ANA MINGYANG WANG & CHEN ZHANG





Introduction

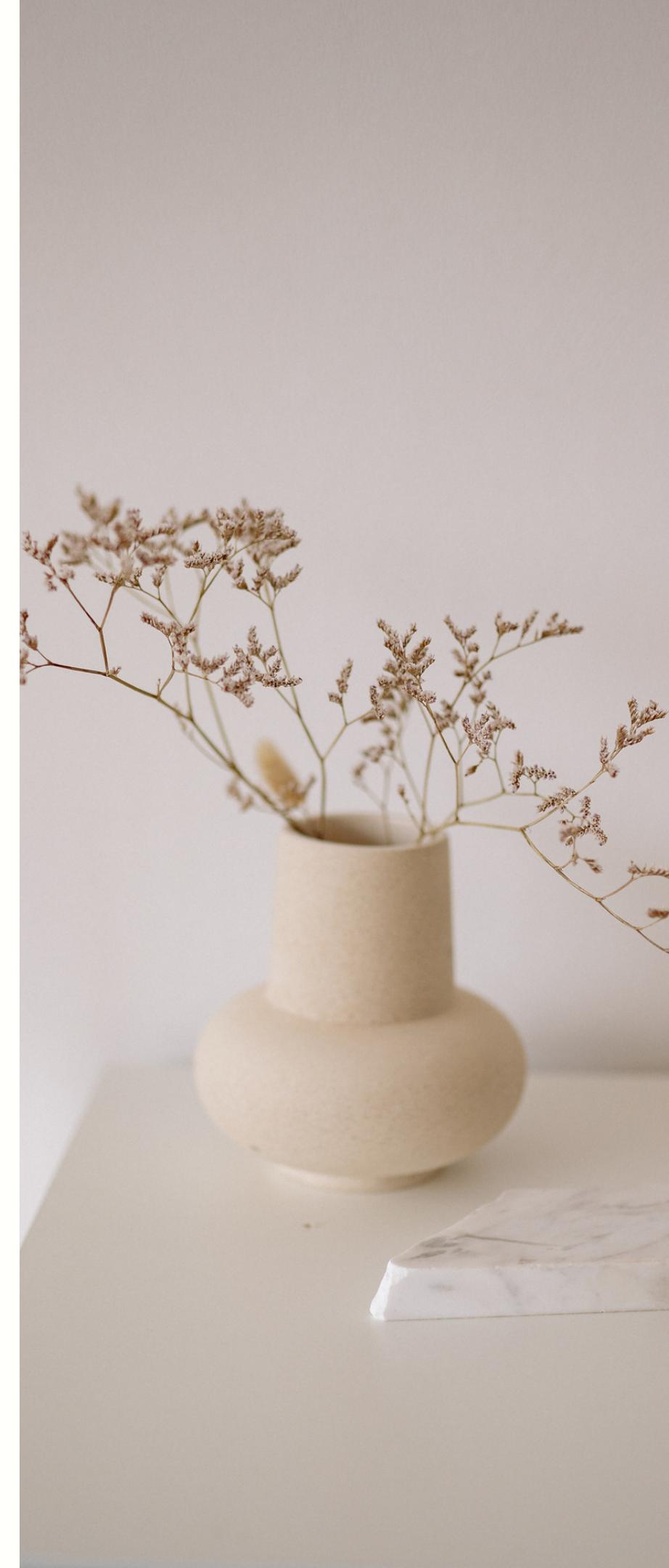
- Project Prioritization is an internal project management application for the Teams and Subscriptions Marketing team (TSM) which is in charge of building B2B marketing landing pages on the Canva website.
- Project Prioritization will help teams to prioritize their projects and improve team's productivity by ensuring the team focus on the most impactful projects based on available capacity.

Purpose of our app:

- Our project management application will help the TSM team to collect ideas from various people at Canva and add relevant context/additional information to each idea.
- The application will also automatically calculate the ICE score (Impact, Confidence, Effort which is a prioritization framework) that is required by the managers for their decision-making process.
- It allows managers to provide feedback for each idea so people can review their ideas.
- This application will let users be free from using manual spreadsheets and improve their productivity

MERN full-stack app:

- Front-end: React, JavaScript, HTML
- Back-end: Express, Node.JS, Mongoose
- Database: MongoDB
- Styling framework: Material UI, CSS
- Deployment:
 - Netlify Frontend: <https://projectprioritization.netlify.app/signup>
 - Heroku Backend: <https://projectprioritization.herokuapp.com/api/>
 - Railway Backend: <https://projectprioritization.up.railway.app/api>



Separates the program into modules

- Each deals with one particular focus, or concern
- The code files for the application are separated into two directories that are linked to two separate Github repositories: Project-Prioritization-Client-2 (for the front-end) and Project-Prioritization-Server (for the back-end).

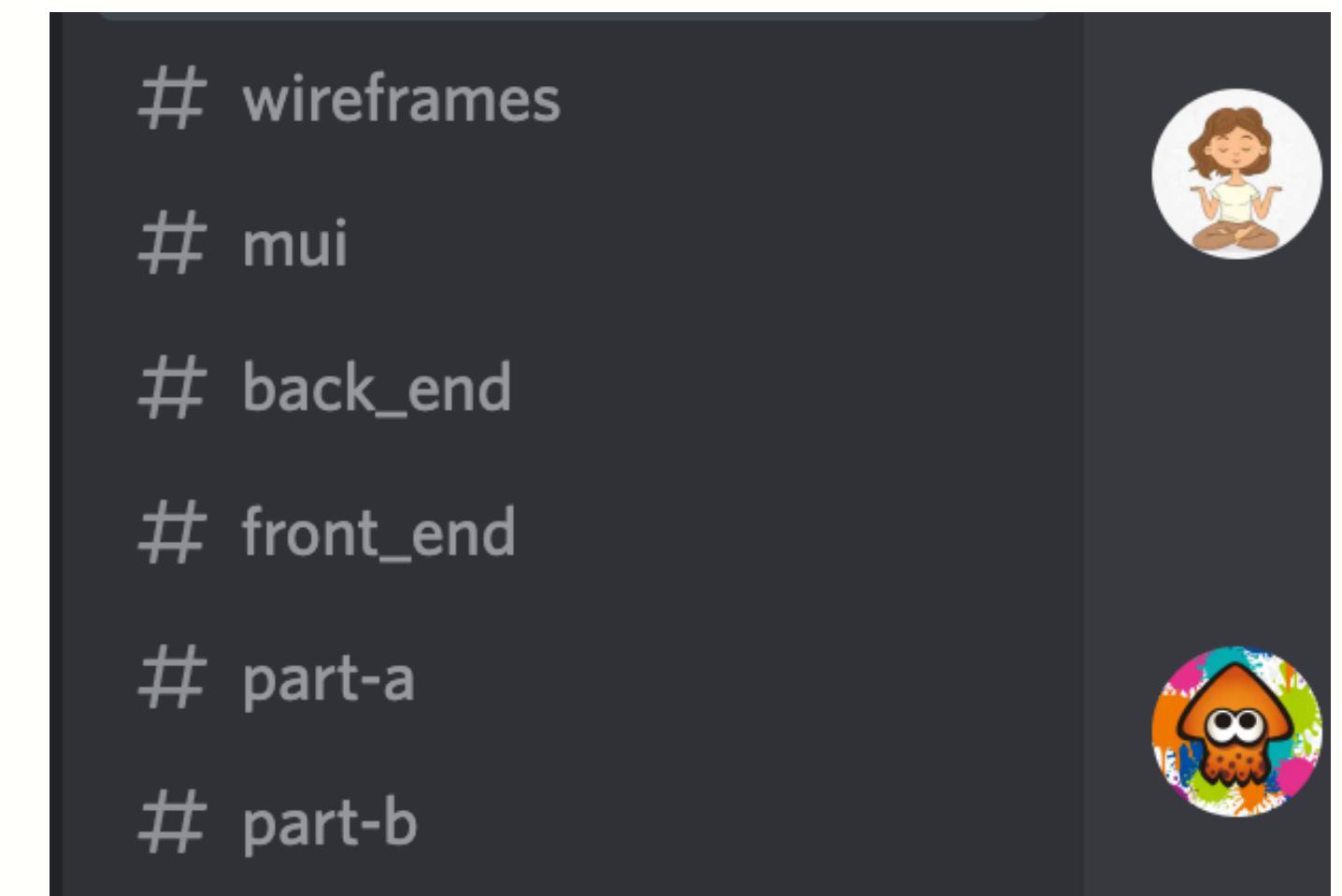
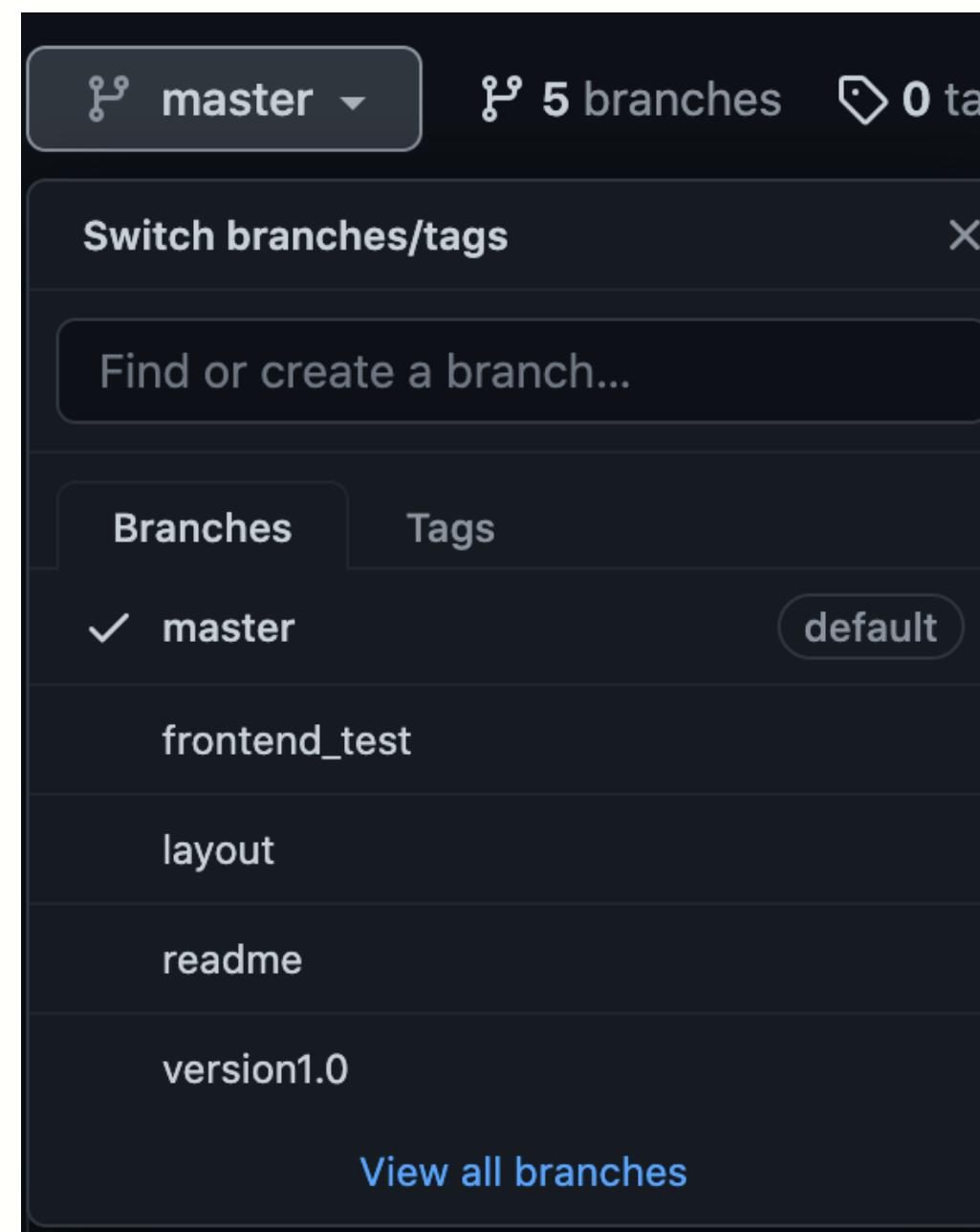
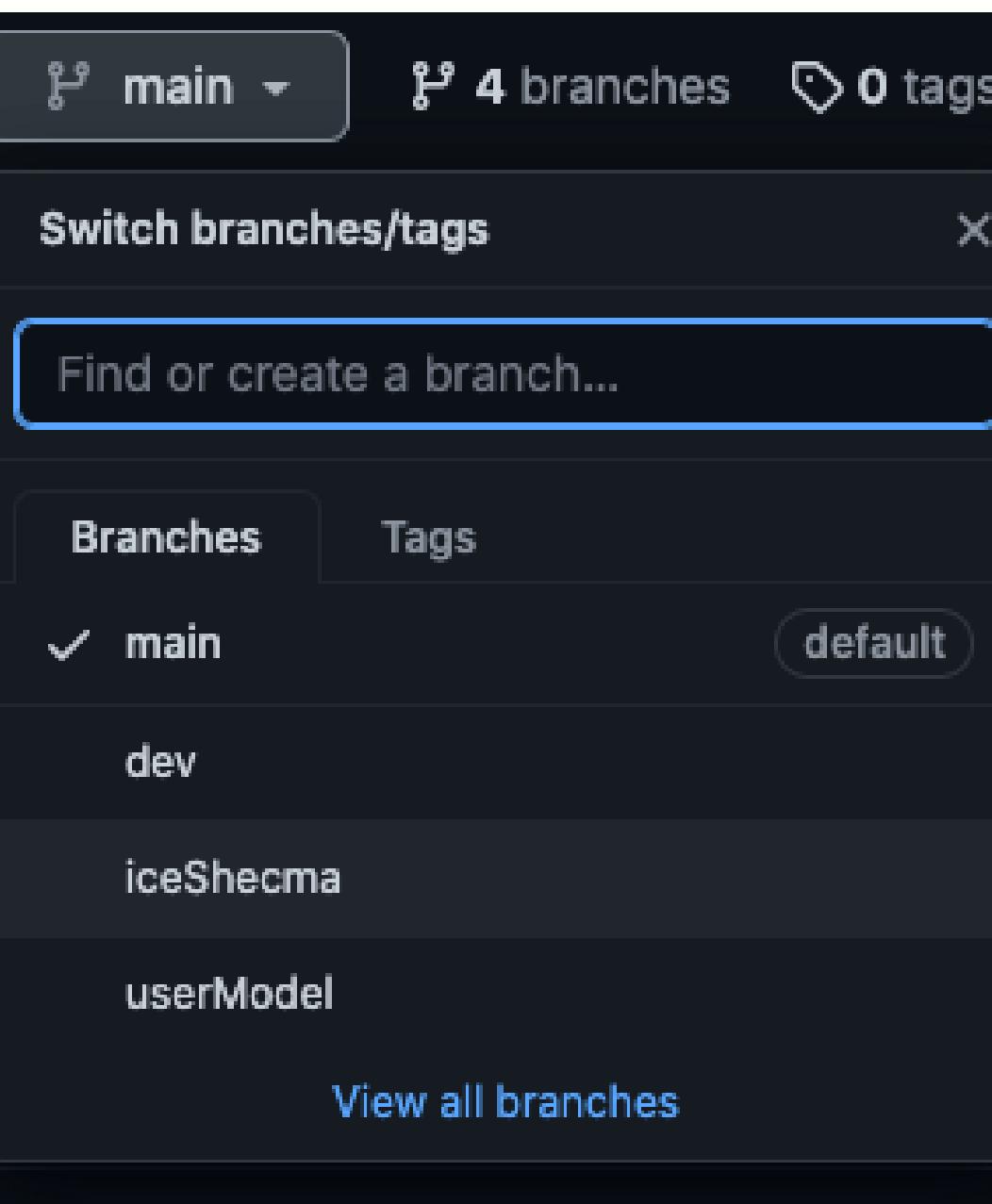
The image shows a file explorer interface with two main sections. On the left, under 'PROJECT PRIORITIZATION', there is a 'client' folder containing subfolders like 'cypress', 'node_modules', 'public', and 'src'. The 'src' folder contains 'Archives', 'components' (with subfolders 'header', 'logo', 'nav-section', 'navbar', 'tickets', 'userpage'), and several JSX files: 'FeedbackForm.jsx', 'Feedbacks.jsx', 'ICE_Score.jsx', 'SearchResults.jsx', and 'SubmissionSuccess.jsx'. It also includes 'config', 'pages', 'services', 'utils', and three JavaScript files: 'App.js', 'index.js', and 'routes.js'. A 'tests' folder contains '.babelrc', '.gitignore', 'cypress.config.js', 'NOTES.md', and three JSON files: 'package-lock.json' and two 'package.json' files. On the right, under 'Project_Prioritization_Server', there are 'controllers', 'middleware', 'models', 'node_modules', 'routes', 'test', a '.env' file, a '.gitignore' file, an 'index.js' file, three 'package-lock.json' files, and three 'package.json' files. A small circular icon with a 'Q' is visible at the bottom left.

```
PROJECT PRIORITIZATION
  client
    cypress
    node_modules
    public
    src
      Archives
      components
        header
        logo
        nav-section
        navbar
        tickets
        userpage
      FeedbackForm.jsx
      Feedbacks.jsx
      ICE_Score.jsx
      SearchResults.jsx
      SubmissionSuccess.jsx
      config
      pages
      services
      utils
      App.js
      index.js
      routes.js
    tests
      .babelrc
      .gitignore
      cypress.config.js
      NOTES.md
      package-lock.json
      package.json
      package.json

  Project_Prioritization_Server
    controllers
    middleware
    models
    node_modules
    routes
    test
    .env
    .gitignore
    index.js
    package-lock.json
    package.json
    package.json
    server.js
    package-lock.json
    package.json
    package.json
```

Source Control

- We used Git and Github as our source control tools.
- Individual repository for the front-end (Ana) and the back-end (Chen)
- A common repository for the front-end (Ana and Chen)
- Using branches for developing a particular feature or styling framework or testing, etc.
- Discussion on discord when merging conflicts happened



Trello

This board is set to public. You can change its visibility at any time. [Learn more here](#)

Project Prioritisation Application

- Part B: Plans
- Part B: Doing
- Part B: Double Check
- PartB:Done
- PartA: Done
- Sprint Week 2 24/10-

Part B: Plans

Plans

+ Add a card

Part B: Doing

Doing

- optimize Back-end Test
- Testing Front-end
- Documentation

0/2

23 Nov 9/9 AW

+ Add a card

Part B: Double Check

Backend test need optimize

Bug Fixed ticket delete MyTickets doesn't refresh

get user role

fix refresh page lose user session

get ticket isSubmitted condition

ice caculate test done

+ Add a card

PartB:Done

user validator method

User Function with jwt

Test Done

1

PartA: Done

Finish Line

Dataflow Diagram

Application Architecture Diagram

Front-end Framework

+ Add a card

Sprint Week 2 24/10-

Sprint Week 2

User function use stat

+ Add a card

- Track our tasks
- Divide our project into smaller tasks
- Responsibilities for team members
- Meeting to discuss weekly planning every Monday

Libraries

- Axios to shorten the code required to make HTTP requests.
- Date-fns to format our dueDate for users to choose the date for their project deadline.
- Cors to enable data to be transmitted between the back-end and the front-end. It allows the use of a custom API.
- JSON web token that allows users to create a token based on their email address for authentication.
- Nodemon allows the express server to restart automatically after changing each code.
- Uuidv4 to generate a unique token to validate users.
- Jest and Supertest for unit testing for our front-end and back-end.
- Cypress to do automated integration testing. It allows a code coverage report to be generated after running tests in Cypress.



Testing

Unit Testing: Jest Coverage Report

	87.5	100	50	87.5	
Project_Prioritization_Server server.js	87.5	100	50	87.5	24-25
Project_Prioritization_Server/controllers auth.controller.js	78.62	67.64	82.35	78.62	
feedback.controller.js	96.66	90	100	96.66	56
ticket.controller.js	77.41	62.5	75	77.41	26,36,73-80
user.controller.js	65	50	66.66	65	14,26,42,62,69-75,80-86
Project_Prioritization_Server/middleware isAuth.middleware.js	80	62.5	100	80	11,17,23,38,48,57
user.middleware.js	92.59	100	100	92.59	
validate.middleware.js	90	100	100	90	18
Project_Prioritization_Server/models feedback.model.js	85.71	100	100	85.71	14
ticket.model.js	100	100	100	100	
user.model.js	100	50	100	100	19-27
Project_Prioritization_Server/routes api.route.js	100	100	100	100	
auth.route.js	100	100	100	100	
feedbacks.route.js	100	100	100	100	
tickets.route.js	100	100	100	100	
users.route.js	100	100	100	100	
Project_Prioritization_Server/test login.js	100	100	100	100	

```
Test Suites: 4 passed, 4 total  
Tests:       30 passed, 30 total  
S snapshots: 0 total  
Time:        9.988 s  
Ran all test suites.
```

System Integration Testing

The screenshot shows the Cypress Test Runner interface. A sidebar on the left lists test files and their results. The main area displays a browser window for 'localhost:3000/listings' in Chrome 107 at 1000x660 (65% zoom). The browser title bar says 'Project Prioritization'. The page content shows a table titled 'Submitted Tickets' with several rows of data.

Author	Initialive	Target	ICE	Launch Date
Ana Wang	update test 2	Free	36	11/26/2022
user1 James	Change Target range	Others	24	12/16/2022
user1 James	hioshdoihlkajnkj	Education	64	11/26/2022
Chen Zhang	Chen Test 2	Education	12	11/23/2022
user1 James	I love story book	Teams	12	11/25/2022
user1 James	Kid_story_book	Teams	24	11/30/2022
Ana Wang	test2141	Others	0	11/18/2022

```
client > cypress > e2e > js signinandsignup_spec.js - Project Prioritization
1 // sing in and sign up page nav
2 describe("signin signup page nav test", () => {
3   it("showing sign in page without authorize", () => {
4     cy.visit("localhost:3000/mytickets");
5     cy.location("pathname").should("eq", "/signin");
6   });
7
8   it("jump to sign up page with click link sign Up?", () => {
9     cy.visit("localhost:3000/signin");
10    cy.contains("a", "Sign Up?").click();
11    cy.location("pathname").should("eq", "/signup");
12  });
13
14   it("jump to sign in page with click link sign In", () => {
15     cy.visit("localhost:3000/signup");
16     cy.contains("a", "Sign In").click();
17     cy.location("pathname").should("eq", "/signin");
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20  // -----
21  // sign in sign up
22  describe("User Sign Up and Sign in Functionality Testing", function () {
23    // -----
24    // sign up function
25    it("signup user", function () {
26      cy.visit("localhost:3000/signup");
27      cy.get('input[name="email"]').type("user1@gmail.com");
28      cy.get('input[name="password"]').type("test@123");
29      cy.get('input[name="confirmPassword"]').type("test@123");
30      cy.wait(2000);
31      cy.contains("button", "Sign Up").click();
32    });
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34    it("signup with input area empty", function () {
35      cy.visit("localhost:3000/signup");
36      cy.contains("button", "Sign Up").click();
37      cy.contains("Fields can't be blank");
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41      cy.visit("localhost:3000/signup");
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427    cy.get('input[name="email"]').type("user1@gmail.com");
428    cy.get('input[name="password"]').type("test@123");
429    cy.get('input[name="rememberMe"]').click();
430    cy.contains("button", "Sign In").click();
431    cy.location("pathname").should("eq", "/mytickets");
432  });
433
434  it("signin with wrong password", function () {
435    cy.visit("localhost:3000/signin");
436    cy.get('input[name="email"]').type("user1@gmail.com");
437    cy.get('input[name="password"]').type("wrongpassword");
438    cy.get('input[name="rememberMe"]').click();
439    cy.contains("button", "Sign In").click();
440    cy.contains("Incorrect email or password");
441  });
442
443  // -----
444  // sign in sign up
445  describe("User Sign Up and Sign in Functionality Testing", function () {
446    // -----
447    // sign up function
448    it("signup user", function () {
449      cy.visit("localhost:3000/signup");
450      cy.get('input[name="email"]').type("user1@gmail.com");
451      cy.get('input[name="password"]').type("test@123");
452      cy.get('input[name="confirmPassword"]').type("test@123");
453      cy.wait(2000);
454      cy.contains("button", "Sign Up").click();
455    });
456
457    it("signup with input area empty", function () {
458      cy.visit("localhost:3000/signup");
459      cy.contains("button", "Sign Up").click();
460      cy.contains("Fields can't be blank");
461    });
462
463    it("signup with email which has been registered", function () {
464      cy.visit("localhost:3000/signup");
465      cy.contains("button", "Sign Up").click();
466      cy.contains("Email is already in use");
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```

User Acceptance Testing

	A	B	C	D	E	F	G
1	Feature	Test Case	Expected Result	Auctual Result	User Validation	Comments	
2	Enable users to register	Positive case					
3		Sign up: First Name, Last Name, Email, Passwords, and Comfirm Passwords	User is able to create an account by filling all the fields.	Yes	<input checked="" type="checkbox"/>		
4		Negative cases					
5		Sign up: Invalid email address	Display an error message	Yes			
6		Sign up: any field is empty.	Display an error message	Yes			
7		Sign up: password doesn't match with confirm password or password doesn't contain eight characters including a number and a special character(!@#\$%^&*(),.?":{} <>). Any field is empty.	Display an error message	Yes			
8		Positive case					
9		Sign in: Email, Passwords & Sign out	User is able to sign in and sign out their account	Yes	<input checked="" type="checkbox"/>		
10		Negative case					
11		Sign in: any field is empty.	Display an error message	Yes			
12	Allow users to submit ideas	Positive cases					
13		Create form: click on the link to create, create ticket form will display	Form is displayed and the field can be filled	Yes	<input checked="" type="checkbox"/>		
14		Edit the following fields: project initiative, description, target, dueDate, impact, confidence, effort	Able to edit	Yes	<input checked="" type="checkbox"/>	Target dropdown and dueDate didn't work on 14 Nov 2022, Ana fixed the bug and tested it.	
15		Click on the save button to save ticket details	Ticket details are saved and match with the database ticket table	Yes	<input checked="" type="checkbox"/>		
16		Saved ticket details display on the MyTicket list	Display MyTicket list that reflects the saved data	Yes	<input checked="" type="checkbox"/>		
17		Click on the submit button to create ticket details	Ticket details are submitted and match with the database ticket table	Yes	<input checked="" type="checkbox"/>		
18		Submitted ticket details display on the MyTicket list and also on the all submitted ticket listing	Display MyTicket list and all submitted ticket listing pages that reflect the saved data	Yes	<input checked="" type="checkbox"/>		
19		Negative case					
20		If any fields of ticket form is empty, save/submit button is clicked	Display an error message	Yes			
21		Positive cases					
22	Allow users to edit and delete ticket	When I login in to my account, I can view MyTicket page and click add ticket button	I am able to add a ticket when I click the button and it redirects me to the ticket form page.	Yes	<input checked="" type="checkbox"/>		
23		Click on the edit button on the ticket detail page	It redirects me to the ticket form page	Yes	<input checked="" type="checkbox"/>	Edit button did not work properly on 15 Nov 2022, I created a new ticket when I edited my created ticket. Ana fixed the bug and tested it.	
24		When I am redirected to the ticket form page, the value is showed.	After editing, I am able to edit the details and save/ submit the ticket.	Yes	<input checked="" type="checkbox"/>		
						Delete button was not working	



App Demo