



School of Computer Science Engineering & Information Systems

Department of Software and Systems Engineering

M.Tech Software Engineering

SWE3099-Industrial Internship

INDUSTRIAL INTERNSHIP DIARY

📅 DATE: 15th of May 2023

Day 1: Project Setup and Initial Planning

Task Completed

- Set up the development environment.
- Installed necessary tools and libraries.
- Created a GitHub repository for version control.
- Began outlining the project plan and milestones.
- Initialized the React.js project structure.

📅 DATE: 16th of May 2023

Day 2: Initial Requirements Gathering

Task Completed

- Conducted initial meetings with stakeholders to gather requirements.
- Created a list of core features for the web app.
- Defined user roles and permissions.
- Created a basic wireframe for the sign-up page.

📅 DATE: 17th of May 2023

Day 3: UI/UX Design for Sign-Up

Task completed

- Started designing the sign-up page UI.
- Refined the wireframe for the sign-up page.
- Designed the layout, color scheme, and user interface elements.
- Created a prototype or mockup for user testing.
- Reviewed and iterated on the design based on feedback.

📅 DATE: 18th of May 2023

Day 4: User Registration Functionality

Task completed

- Began implementing the user registration feature.
- Set up user registration routes and controllers in Node.js.
- Created the database schema for user accounts.
- Implemented client-side validation for registration forms.

📅 DATE: 19th of May 2023

Day 5: User Registration and Validation

Task completed

- Continued working on user registration functionality.
- Implemented server-side validation for registration inputs.
- Added password hashing for security.
- Created success and error messages for registration.

📅 DATE: 20th of May 2023

Day 6: Login Page Design

Task completed

- Started designing the login page UI.
- Decided on the layout and components for the login form.
- Ensured the design was responsive for various screen sizes.

📅 DATE: 21st of May 2023

Day 7: User Registration and Validation

Task Completed

- Finalized the user registration feature, fixing any bugs.
- Tested the registration process with sample data.
- Set up email confirmation (if required) for user accounts.
- Began working on the password reset functionality.

📅 DATE: 22nd of May 2023

Day 8: Password Reset Functionality

Task Completed

- Continued developing the password reset feature.
- Allowed users to request password resets.
- Generated and sent password reset emails with unique tokens.
- Created password reset forms and routes.

📅 DATE: 23rd of May 2023

Day 9: User Login Functionality

Task Completed

- Implemented the login functionality in the backend.
- Configured user sessions and authentication middleware.
- Handled authentication errors gracefully.
- Began designing the email template management UI.

📅 DATE: 24th of May 2023

Day 10: Role-Based Authorization

Task Completed

- Defined roles (admin and user) and permissions.
- Implemented role-based authorization for routes and actions.
- Tested user login with different roles.
- Started working on CRUD operations for email templates.

📅 DATE: 25th of May 2023

Day 11: Email Template Management UI

Task Completed

- Finalized the design for creating and modifying email templates.
- Created wireframes or mockups for the template management pages.
- Ensured the design was user-friendly and intuitive.

📅 DATE: 26th of May 2023

Day 12: CRUD for Email Templates

Task Completed

- Implemented the Create operation for email templates.
- Set up API routes and controllers for template creation.
- Implemented validation for template data.
- Tested the template creation process.

📅 DATE: 27th of May 2023

Day 13: CRUD for Email Templates

Task Completed

- Continued working on CRUD operations for email templates.
- Implemented the Read operation to display existing templates.
- Created an interface for users to view and select templates.
- Started designing the UI for sending emails and generating reports.

📅 DATE: 28th of May 2023

Day 14: Email Sending UI

Task Completed

- Began designing the UI for composing and sending emails.
- Created a layout for adding recipients, subject, and content.
- Ensured that email templates could be selected for sending.

📅 DATE: 29th of May 2023

Day 15: CRUD for Email Templates

Task Completed

- Implemented the Up 📅 Date operation for email templates.
- Allowed users to modify existing templates.
- Ensured that changes were saved and up 📅 Dated in the database.
- Tested template modification and saving.

📅 DATE: 30th of May 2023

Day 16: Email Sending Functionality

Task Completed

- Started developing the backend logic for sending emails.
- Set up email service integration (e.g., Nodemailer) for sending emails.
- Implemented error handling for email sending.
- Tested sending emails with sample data.

📅 DATE: 31st of May 2023

Day 17: Reporting UI

Task Completed

- Began designing the UI for generating reports.
- Decided on report parameters, such as 📅 Date range and criteria.
- Created a layout for displaying report results.

📅 DATE: 1st of June 2023

Day 18: Email Sending and Error Handling

Task Completed

- Continued refining the email sending functionality.
- Handled email delivery errors and retries.
- Implemented logging for sent emails.
- Started generating basic reports based on 📅 Dates.

📅 DATE: 2nd of June 2023

Day 19: Email Tracking

Task Completed

- Developed the email tracking feature.
- Implemented mechanisms to track when emails were opened.
- Gathered data on email interactions and recipients' behavior.
- Ensured the security and privacy of tracking data.

📅 DATE: 3rd of June 2023

Day 20: Audit Logs

Task Completed

- Started creating audit logs for user actions.
- Recorded actions like email sending, template modifications, and logins.
- Designed a UI for admin users to access audit logs.
- Ensured the logs were securely stored and easily accessible.

📅 DATE: 4th of June 2023

Day 21: Customer List UI

Task Completed

- Began designing the UI for managing customer lists.
- Created a layout for uploading customer lists from Excel sheets.
- Ensured that the design supported efficient data entry.

📅 DATE: 5th of June 2023

Day 22: Customer List Integration

Task Completed

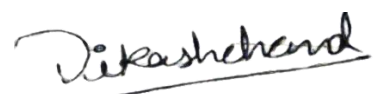
- Implemented the backend logic for importing customer lists.
- Created API endpoints for uploading and processing Excel sheets.
- Validated and sanitized customer data from uploaded sheets.
- Tested the customer list import feature.

📅 DATE: 6th of June 2023

Day 23: Customer List Management

Task Completed

- Continued working on customer list management.
- Implemented list editing, deletion, and viewing features.
- Ensured that customer data was securely stored.



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- Created relationships between customer lists and email campaigns.

📅 DATE: 7th of June 2023

Day 24: Database Migration Planning

Task Completed

- Planned the migration from MySQL to MongoDB.
- Documented the data structures and relationships in the MySQL database.
- Identified any necessary data transformations or mapping.

📅 DATE: 8th of June 2023

Day 25: Database Migration Initial Steps

Task Completed

- Began the initial steps of migrating the database.
- Set up a MongoDB instance for the new database.
- Developed scripts to extract data from MySQL and insert it into MongoDB.

📅 DATE: 9th of June 2023

Day 26: Database Migration

Task Completed

- Continued with the database migration process.
- Tested data extraction and insertion scripts.
- Ensured that data integrity was maintained during migration.

📅 DATE: 10th of June 2023

Day 27: Database Migration and Testing

Task Completed

- Finalized the database migration from MySQL to MongoDB.
- Validated the integrity of the migrated data.
- Updated the application code to work with MongoDB.

📅 DATE: 11th of June 2023

Day 28: Email Tracking Enhancements

Task Completed

- Improved email tracking capabilities.
- Gathered more detailed data on email interactions.
- Enhanced the reporting feature with additional insights.

📅 DATE: 12th of June 2023

Day 29: Audit Log Enhancements

Task Completed

- Enhanced the audit log functionality.
- Included more detailed information in the logs.
- Implemented search and filtering options for logs.

📅 DATE: 13th of June 2023

Day 30: Deployment Preparation

Task Completed

- Prepared the application for deployment to Vercel.
- Configured environment variables for production.
- Optimized the application for performance.
- Set up error tracking and monitoring tools.

📅 DATE: 14th of June 2023

Day 31: Deployment

Task Completed

- Deployed the web application to Vercel or your chosen hosting platform.
- Configured the domain and SSL certificates (if applicable).
- Ensured that the application was accessible and functional in the production environment.
- Set up backups and data recovery mechanisms.

📅 DATE: 15th of June 2023

Day 32: User Acceptance Testing

Task Completed

- Conducted user acceptance testing (UAT).
- Involved stakeholders and users to test the application.
- Documented and addressed any issues or feedback from UAT.

📅 DATE: 16th of June 2023

Day 33: Performance Testing

Task Completed

- Performed performance testing on the application.
- Identified and resolved any bottlenecks or slow-loading pages.
- Optimized database queries and API endpoints for efficiency.

📅 DATE: 17th of June 2023

Day 34: Security Testing

Task Completed

- Conducted security testing, including vulnerability scanning.
- Addressed any security vulnerabilities or weaknesses.
- Ensured that user data was protected and that the application was resistant to common attacks.

📅 DATE: 18th of June 2023

Day 35: Final Testing and Bug Fixes

Task Completed

- Conducted a final round of testing, including regression testing.
- Fixed any remaining bugs or issues.
- Ensured that all features were working as expected in the production environment.

📅 DATE: 19th of June 2023

Day 36: Documentation

Task Completed

- Documented the entire project, including:
- Setup instructions for developers.
- User guides and documentation for end-users.
- Database schema and data dictionary.
- Code documentation (comments, API documentation).

📅 DATE: 20th of June 2023

Day 37: Final Touches

Task Completed

- Performed any last-minute optimizations.
- Conducted a final review of the application.
- Ensured that the application was responsive and functioned well on various devices.

📅 DATE: 21st of June 2023

Day 38: User Training and Onboarding

Task Completed

- Prepared training materials for end-users.
- Provided training sessions or resources for clients and users.
- Ensured that users understood how to use the application effectively.

📅 DATE: 22nd of June 2023

Day 39: Client Handover

Task Completed

- Handed over the completed web application to the client or stakeholders.
- Provided necessary credentials and access rights.
- Offered ongoing support and maintenance plans.

📅 DATE: 23rd of June 2023

Day 40: Project Review and Feedback

Task Completed

- Conducted a project review meeting with the team.
- Gathered feedback on the development process and the final product.
- Identified areas for improvement and lessons learned.

📅 DATE: 24th of June 2023

Day 41: Post-Launch Optimization

Task Completed

- Continued monitoring the application's performance.
- Reviewed server logs and identified any issues.
- Implemented performance optimizations based on real-world usage.

 DATE: 25th of June 2023

Day 42: User Feedback Integration

Task Completed


- Collected user feedback on the deployed application.
- Prioritized and categorized user-reported issues and suggestions.
- Implemented improvements and bug fixes based on user feedback.

 DATE: 26th of June 2023

Day 43: Continuous Integration/Continuous Deployment (CI/CD) Pipeline

Task Completed

- Implemented a CI/CD pipeline to automate code deployment.
- Set up automated testing and deployment workflows.
- Ensured that code changes were automatically built, tested, and deployed.

 DATE: 27th of June 2023

Day 44: Final Review and Project Closure

Task Completed

- Conducted a final project review with the team and stakeholders.
- Evaluated the project's success against initial goals and objectives.

 DATE: 28th of June 2023

Day 45: Final Review and Project Closure

Task Completed

- Documented lessons learned and areas for future improvement.
- Officially closed the project and handed over any remaining tasks or responsibilities.