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Vellore Institute of Technology
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E Ayurveda Recommendation System

WINSEM 2024-25

PMCA601L – FULL STACK WEB DEVELOPMENT

COURSE PROJECT

11 - APRIL - 2025

PROJECT ASSOCIATES-

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E-Ayurveda Medicine Guide

A comprehensive full-stack web application for managing and discovering Ayurvedic medicines and treatments. Built using the MERN stack (MongoDB, Express.js, React, Node.js).

Brief Description:

Users can register and login to the system, from the dashboard they can search for a disease, on selecting the disease all the medicines are listed out. Medicines contain description, benefits, side effects, purchase link, and an option to see feedback. There users can view and give feedback Aswell.

Admins can login to the system, can view listed disease, edit existing records, delete records, add new disease, view listed medicines, add new medicine, edit and delete existing medicines record. For each addition, admin record responsible for the action is recorded

Features:

For public:

- Browse Ayurvedic medicines by disease
- View detailed information:
 - Benefits
 - Dosage
 - Side effects
 - Purchase links
- User registration & login
- Submit feedback and ratings
- Mobile responsive UI

For Admin:

- Secure admin dashboard
- **Disease Management:**
 - Add, edit, delete diseases

- View all listed diseases
- **Medicine Management:**
 - Add medicines with images
 - Edit/delete medicines
 - Link medicines to diseases
- Track admin who added/modified entries

Tech Stack:

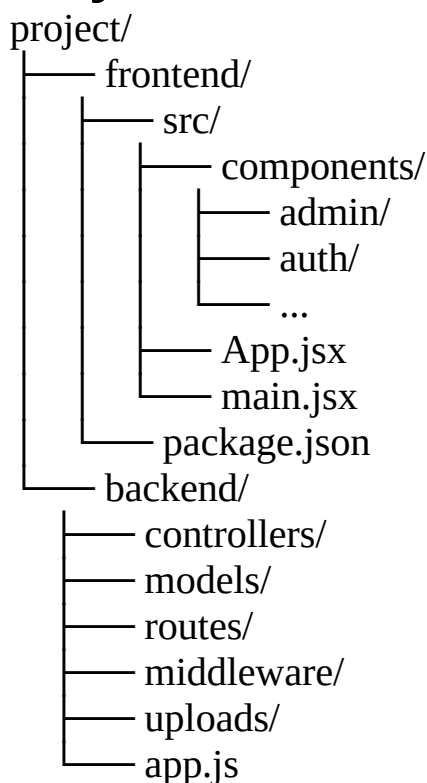
Frontend

- React (with Vite)
- React Router
- Axios
- React Select
- Custom CSS (responsive)

Backend

- Node.js + Express.js
- MongoDB + Mongoose
- Express Session for login sessions
- Multer for image uploads
- Bcrypt for password hashing

Project Structure:



Authentication Flow:

User

- Register with username, email, password
- Login to view medicine details
- Submit feedback on medicines

Admin

- Login to access dashboard
- Manage diseases & medicines
- Track which admin added/edited content

API Routes:

Public Routes:

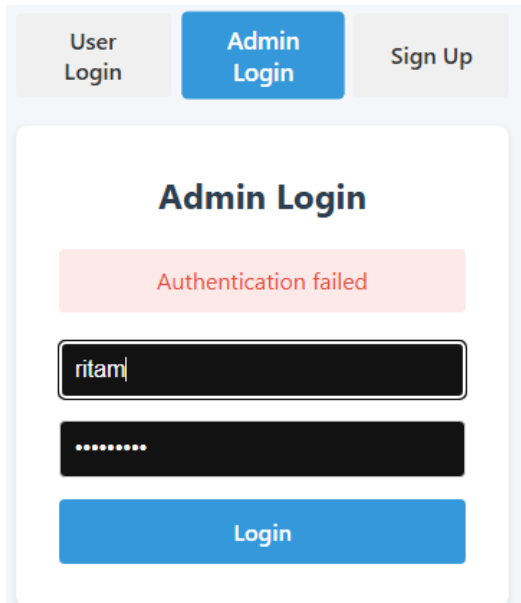
- GET /api/diseases — List all diseases
- GET /api/medicines — List all medicines
- GET /api/feedback/medicine/:name — Get feedback for a specific medicine

Admin (Protected) Routes:

- POST /api/diseases/add — Add new disease
- PUT /api/diseases/:name — Update disease
- DELETE /api/diseases/:name — Delete disease
- POST /api/medicines/add — Add new medicine
- PUT /api/medicines/:name — Update medicine
- DELETE /api/medicines/:name — Delete medicine

Frontend:

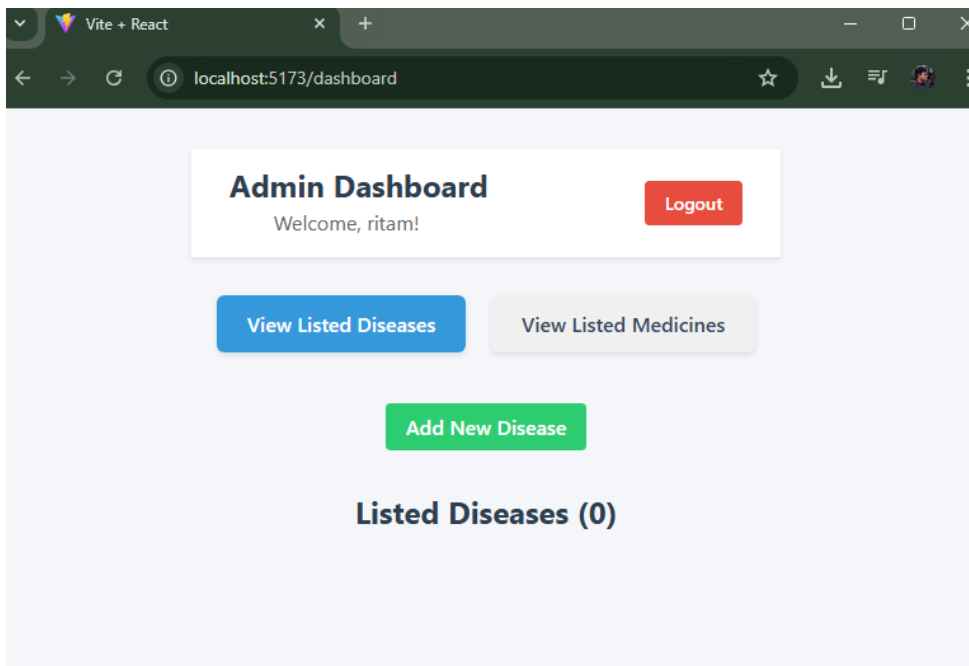
Admin Login:



The image shows a web form for Admin Login. At the top, there are three buttons: 'User Login' (light gray), 'Admin Login' (blue), and 'Sign Up' (light gray). Below these is a white box with the title 'Admin Login'. Inside this box, there is a red error message 'Authentication failed'. Below the error message are two input fields: the first contains the text 'ritam' and the second contains a series of dots representing a password. At the bottom of the white box is a blue 'Login' button.

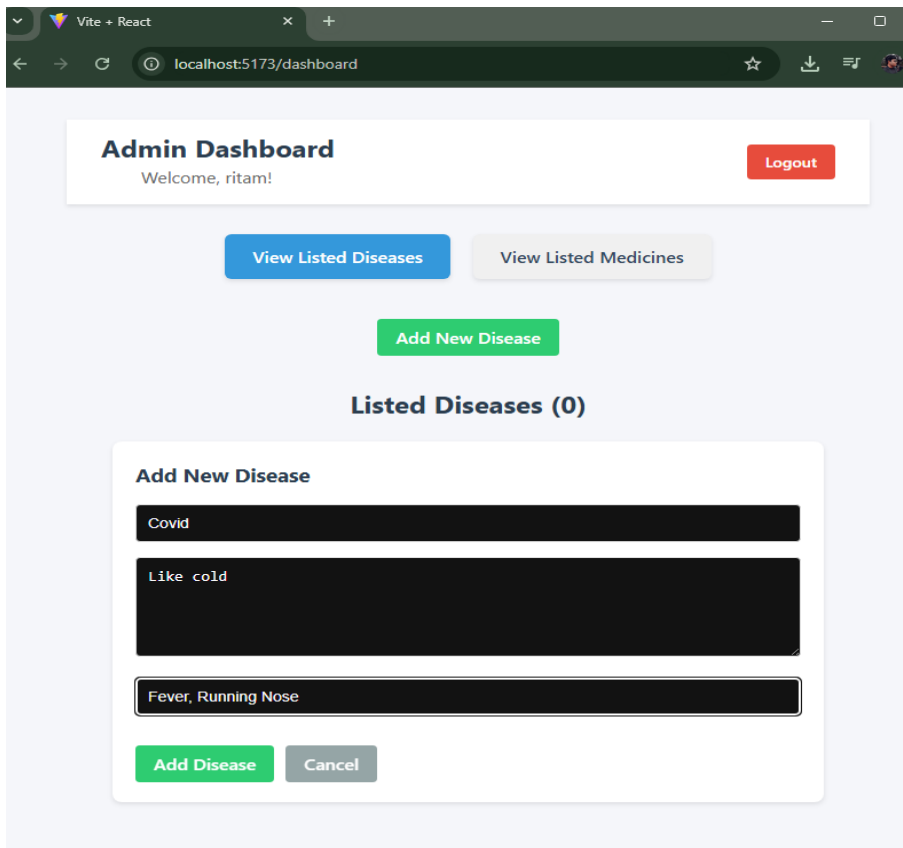
(case: failed attempt)

Admin Dashboard:



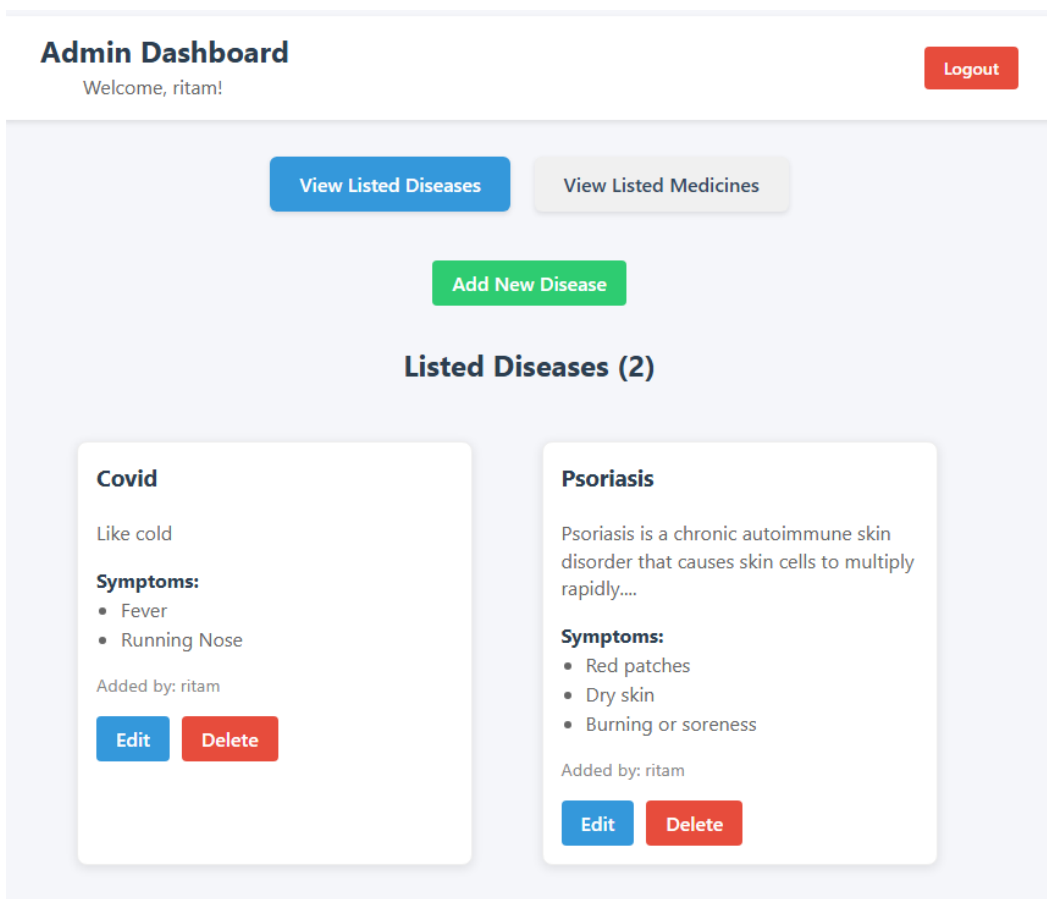
The image is a screenshot of a web browser displaying the Admin Dashboard. The browser's address bar shows 'localhost:5173/dashboard'. The dashboard itself has a light gray background. At the top, there is a white box containing the title 'Admin Dashboard', the text 'Welcome, ritam!', and a red 'Logout' button. Below this box are two buttons: 'View Listed Diseases' (blue) and 'View Listed Medicines' (light gray). Further down is a green 'Add New Disease' button. At the bottom, the text 'Listed Diseases (0)' is displayed.

Adding new Disease:



The screenshot shows a web browser window with the URL `localhost:5173/dashboard`. The page is titled "Admin Dashboard" and includes a "Logout" button. Below the header, there are two buttons: "View Listed Diseases" and "View Listed Medicines". A green button labeled "Add New Disease" is centered below these. The main section is titled "Listed Diseases (0)". A modal form titled "Add New Disease" is open, containing three text input fields with the following text: "Covid", "Like cold", and "Fever, Running Nose". At the bottom of the modal are two buttons: "Add Disease" (green) and "Cancel" (grey).

Listed diseases:



The screenshot shows the "Admin Dashboard" with the "Listed Diseases" section. The header includes "Admin Dashboard", "Welcome, ritam!", and a "Logout" button. Below the header are buttons for "View Listed Diseases", "View Listed Medicines", and a green "Add New Disease" button. The "Listed Diseases (2)" section displays two disease cards. The first card is for "Covid", with the description "Like cold", symptoms "Fever" and "Running Nose", and the text "Added by: ritam". It has "Edit" and "Delete" buttons. The second card is for "Psoriasis", with the description "Psoriasis is a chronic autoimmune skin disorder that causes skin cells to multiply rapidly....", symptoms "Red patches", "Dry skin", and "Burning or soreness", and the text "Added by: ritam". It also has "Edit" and "Delete" buttons.

Adding Medicines:

localhost5173/dashboard

Admin Dashboard
Welcome, ritam!

Logout

View Listed Diseases

View Listed Medicines

Add New Medicine

Listed Medicines (0)

Add New Medicine

Medicine Name

Description

Select Disease

Benefits (comma separated)

Dosage

Side Effects (comma separated)

Purchase Links (comma separated)

Choose file No file chosen

Add Medicine

Cancel

Listed medicines:

localhost5173/dashboard

Admin Dashboard
Welcome, ritam!


Logout

View Listed Diseases


View Listed Medicines

Add New Medicine

Listed Medicines (2)

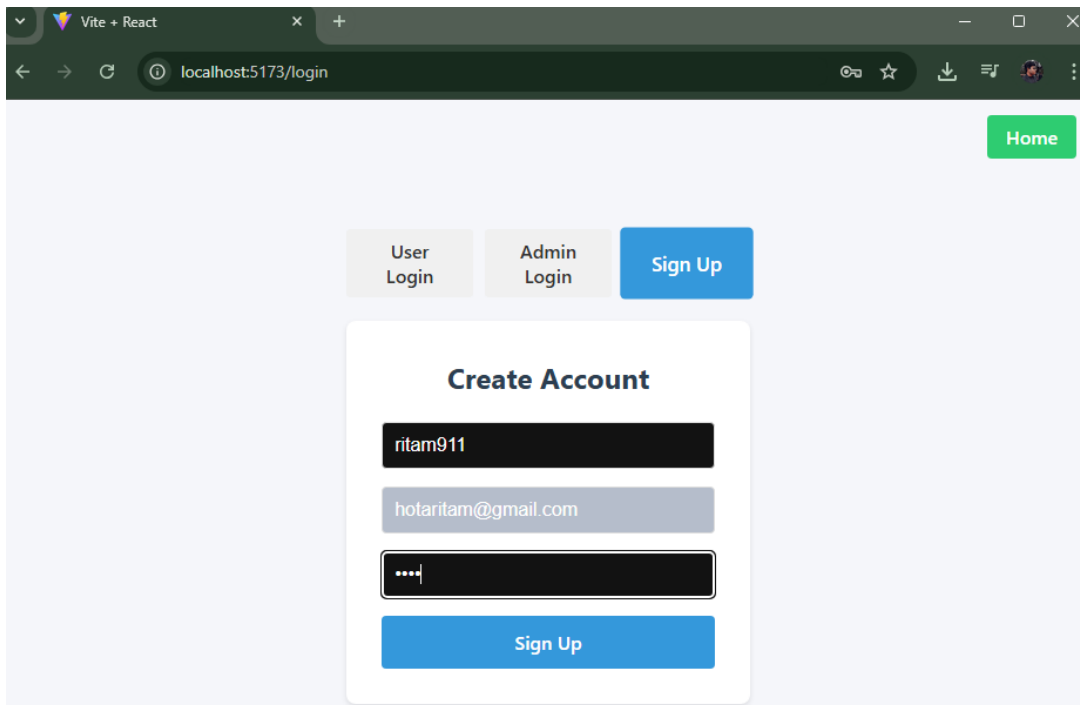


AyurCovishield
To prevent covid
Disease: Covid
Added by: ritam
Edit Delete



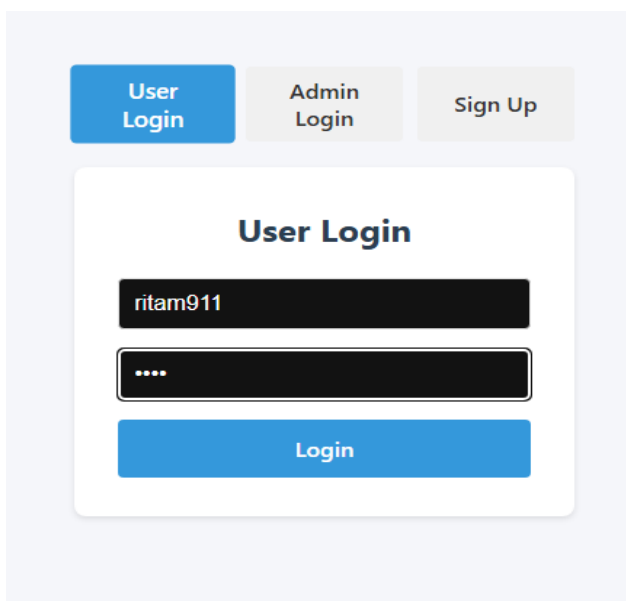
Khadira
Avoid spicy, salty, and fermented foods
Disease: Psoriasis
Added by: ritam
Edit Delete

User Sign up:



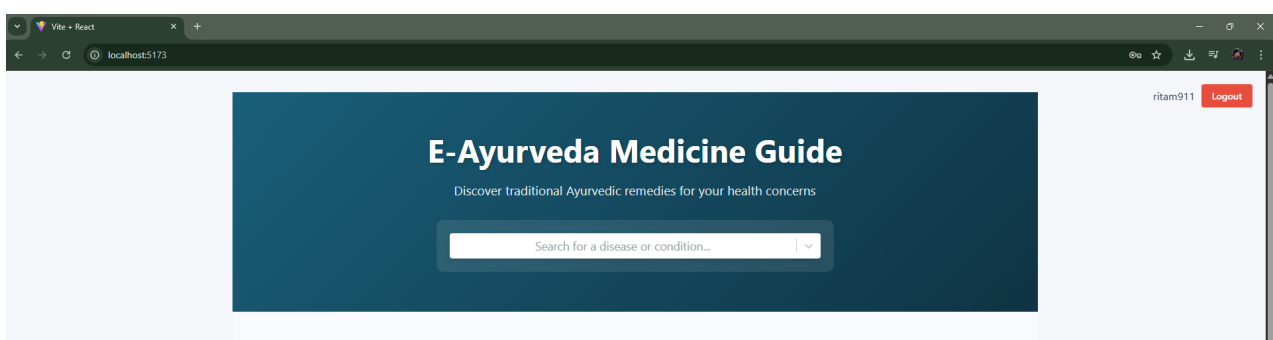
A screenshot of a web browser showing a sign-up page. The browser's address bar displays 'localhost:5173/login'. In the top right corner, there is a green 'Home' button. Below this, there are three buttons: 'User Login', 'Admin Login', and 'Sign Up'. The 'Sign Up' button is highlighted in blue. Below these buttons is a 'Create Account' form. The form contains three input fields: the first contains 'ritam911', the second contains 'hotaritam@gmail.com', and the third is a password field with masked characters '....'. At the bottom of the form is a blue 'Sign Up' button.

User Login:



A screenshot of a web browser showing a login page. At the top, there are three buttons: 'User Login', 'Admin Login', and 'Sign Up'. The 'User Login' button is highlighted in blue. Below these buttons is a 'User Login' form. The form contains two input fields: the first contains 'ritam911' and the second is a password field with masked characters '....'. At the bottom of the form is a blue 'Login' button.

Logged in user:




A screenshot of a web browser showing the user interface after logging in. The browser's address bar displays 'localhost:5173'. In the top right corner, the username 'ritam911' is displayed next to a red 'Logout' button. The main content area features a dark blue header with the title 'E-Ayurveda Medicine Guide' and the subtitle 'Discover traditional Ayurvedic remedies for your health concerns'. Below the header is a search bar with the placeholder text 'Search for a disease or condition...'. The search bar has a dropdown arrow on the right side.

Recommended medicine based on disease:

Covid

Recommended Medicines for Covid



AyurCovishield

To prevent covid

Benefits:


- No side effects
- Eating curd is restricted

Side Effects:

- Rashes

Dosage: once per day

Best Purchase Link:



DivyaCovid

An Ayurvedic formulation by Patanjali claimed to boost immunity and support respiratory health during COVID-19

Benefits:

- Boosts immunity
- Reduces inflammation

Side Effects:

- Mild gastric discomfort
- Dry mouth

Feedback option for the medicine:

Hide Feedback

Feedback

The medicine was useful

4 Stars

Submit Feedback

Feedback

Write your feedback...

5 Stars

Submit Feedback

The medicine was useful

Rating: 4/5 By: ritam911

Delete

Future Scope:

AI-Powered Recommendations:

- Implement machine learning algorithms for personalized medicine recommendations
- Symptom-based disease prediction
- Drug interaction warnings

Content Expansion:

- Video demonstrations of medicine preparation
- Integration with Ayurvedic practitioners for consultations
- Multilingual support for regional languages

Community Features:

- User forums for discussion
- Expert Q&A sessions
- Integration with social media platforms

E-Commerce Integration:

- Integrated marketplace for authentic Ayurvedic medicines
- Price comparison across vendors
- Subscription-based medicine delivery

Conclusion:

The E-Ayurveda Medicine Guide is an important breakthrough in the process of digitizing classical Ayurvedic healthcare wisdom with the power of contemporary technology. Developed over the MERN (MongoDB, Express.js, React, Node.js) stack, the rich web application acts as a connective hub between ancient therapeutics and contemporary digital access. The system maintains a strong infrastructure with separate roles for

users - public users receive medicinal data, whereas administrators assure data integrity from an encrypted dashboard. Key features involve in-depth listings of medicines, treatment of disease-specific conditions, feedback mechanisms by users, and image-based content management. The technical implementation of the application represents contemporary software development techniques, which involve secure authentication, session handling, and proper data management with MongoDB. The limitations at present are basic systems of authentication and manual verification of content, though the project depicts promising future avenues in integrating AI, mobile app capabilities, and e-commerce facilities. The site is able to fulfill its main purpose of making Ayurvedic information more accessible without sacrificing data validity under administrative supervision. The project well illustrates the ways in which older medical knowledge can be retained and disseminated through contemporary digital platforms, although it must be observed that it acts as an informational tool rather than a professional medical consultation replacement.