

Presentation on LearnScape

LearnScape — Personalized Learning Roadmap Builder

Course: Full Stack Development

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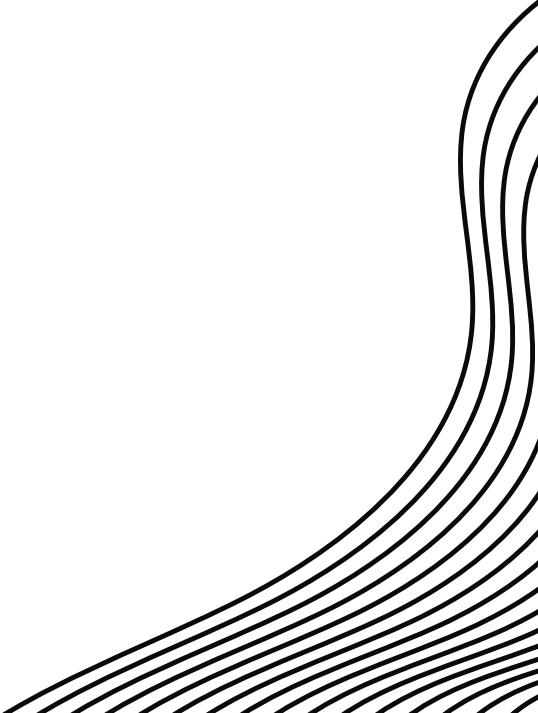


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Virtual Learning for Everyone

LearnScape Overview

Simplifying Personalized Learning Experience

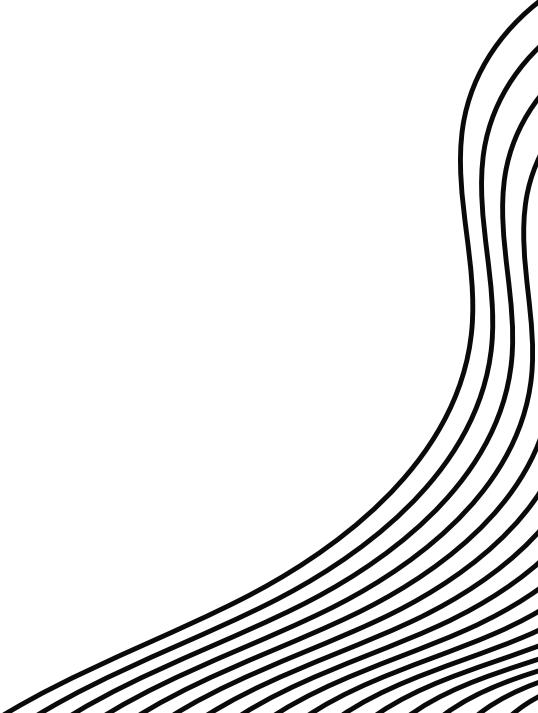
LearnScape is a web platform designed to **streamline self-learning** by providing personalized learning roadmaps, helping users organize resources and achieve their educational goals with ease.



Problem Statement

Challenges in Online Learning Today

Online learning can be **overwhelming and unorganized**, leaving users struggling to determine what to learn and how to track their progress. LearnScape provides a **structured solution** to this issue.



Project Scope

What's Included and What's Next

Frontend Focus

The platform utilizes **React and Bootstrap** to create a dynamic user interface, allowing for a fully responsive design that enhances user experience across devices.

Future Backend Integration

Future plans involve incorporating a backend database for **user authentication and resource management**, enabling personalized features and progress tracking for a more tailored learning experience.

Project Objectives

Key Goals for LearnScape Development

Learning Topics

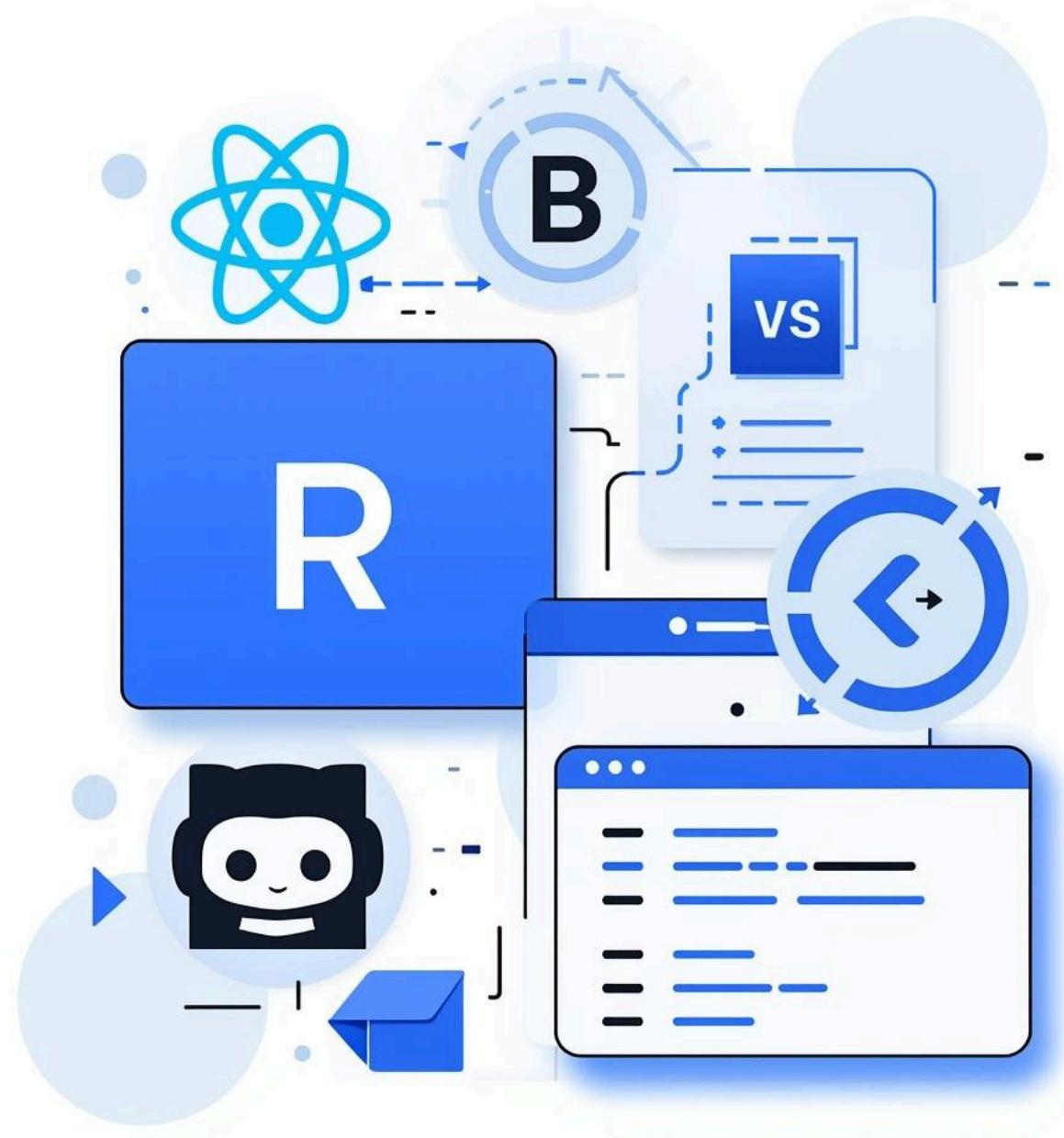
Users will be able to **select relevant learning topics** tailored to their interests and career aspirations, ensuring a more engaging and personalized educational experience.

Curated Resources

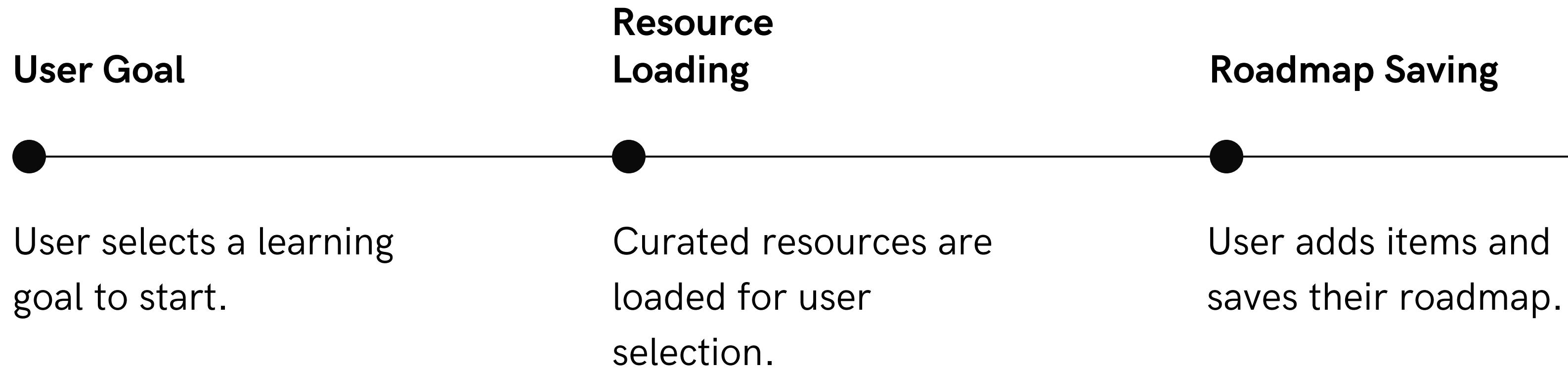
LearnScape will display **curated resources** such as articles, videos, and books from trusted sources, providing a comprehensive and organized collection for each learning pathway.

Technology Stack

LearnScape utilizes modern web technologies like React, Bootstrap, and GitHub, ensuring a **robust and efficient development** environment.



System Flow

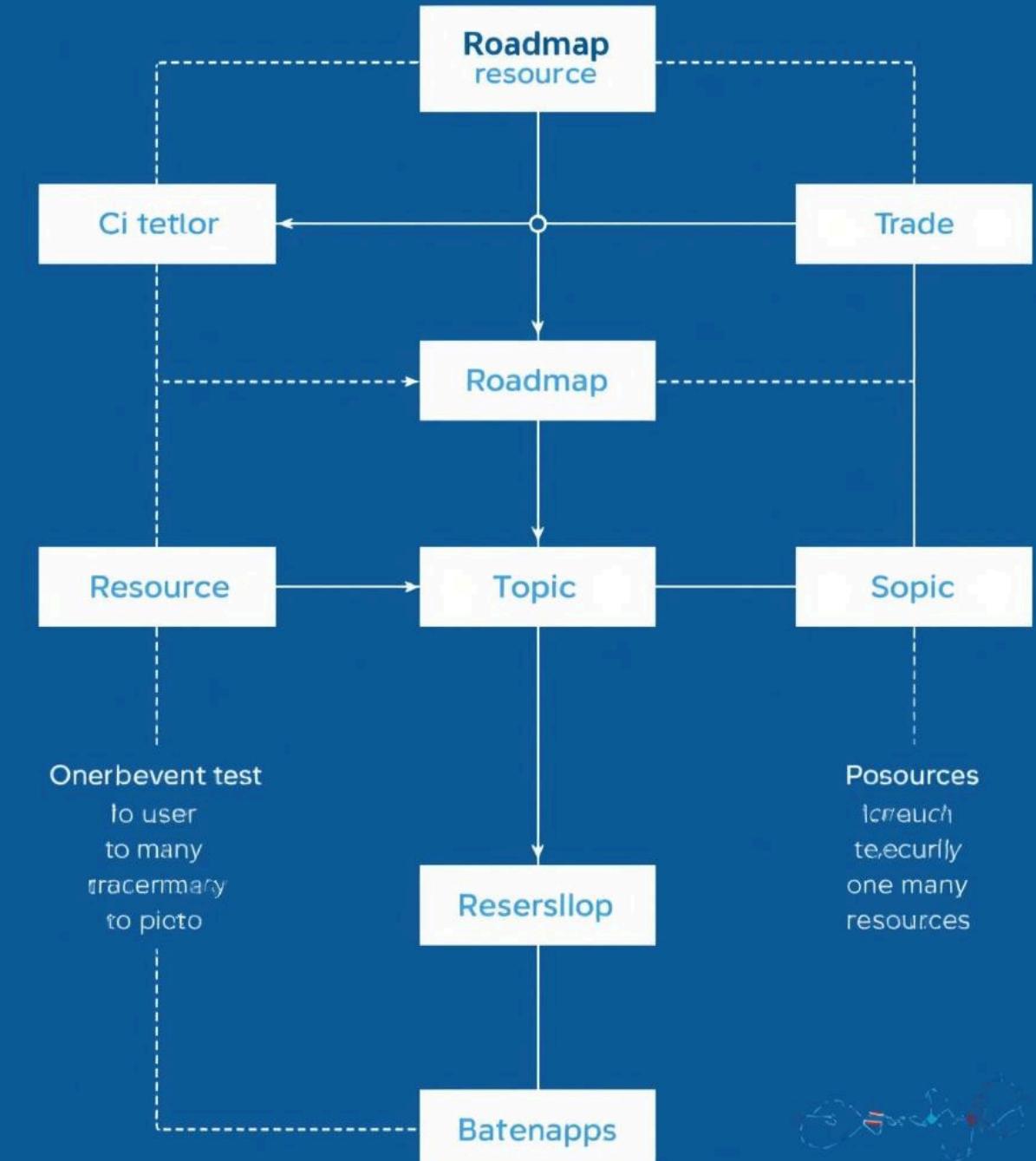


Database Design

Planning a structured data framework ensures efficient management of user interactions and roadmaps, optimizing future functionality and scalability.

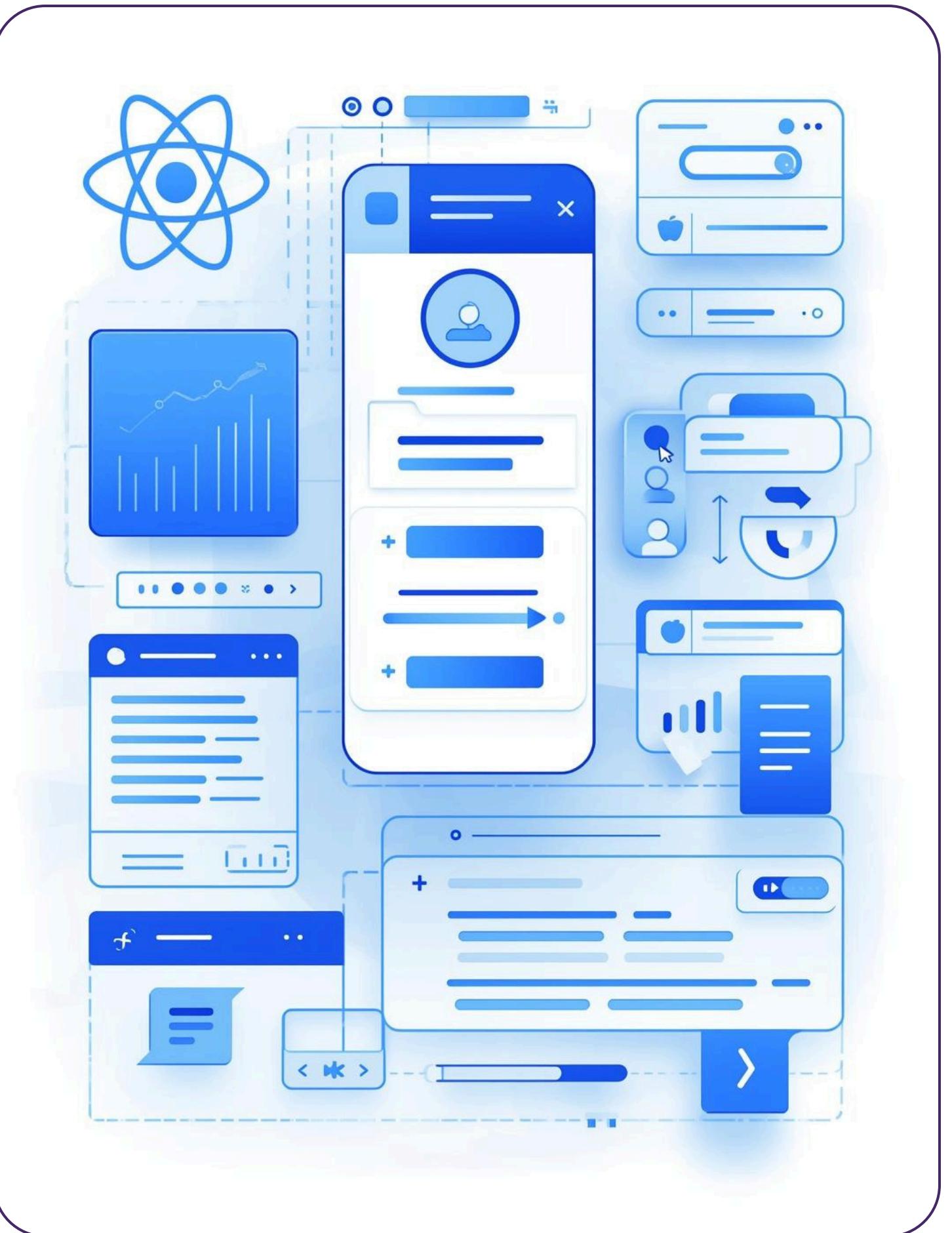
ER-Entity-Relationship Diagram

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Frontend Implementation

The frontend leverages **React Hooks** for state management, ensuring a responsive user interface with seamless interactions and efficient rendering.

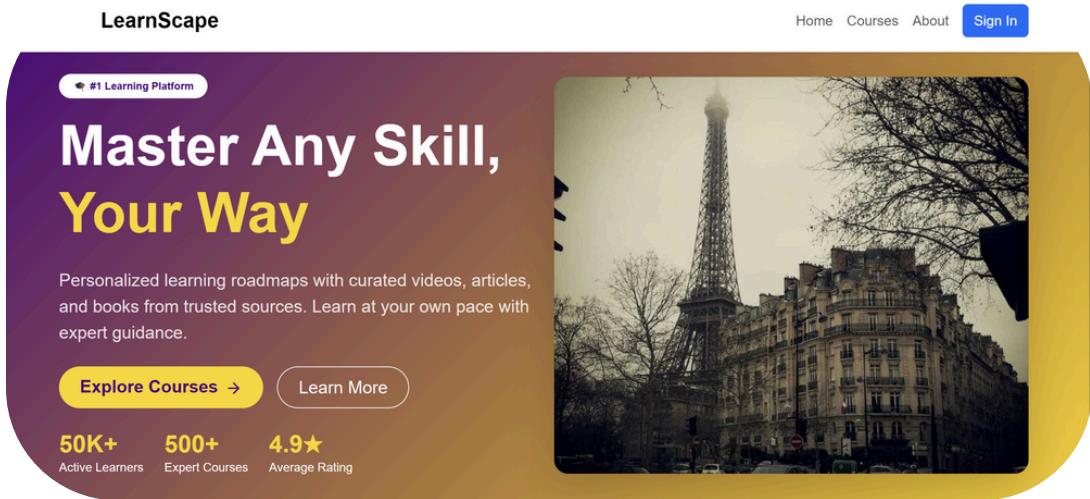


Back-End Logic

Currently, LearnScape uses mock data stored in React state, preparing for future backend integration with options like Firebase.

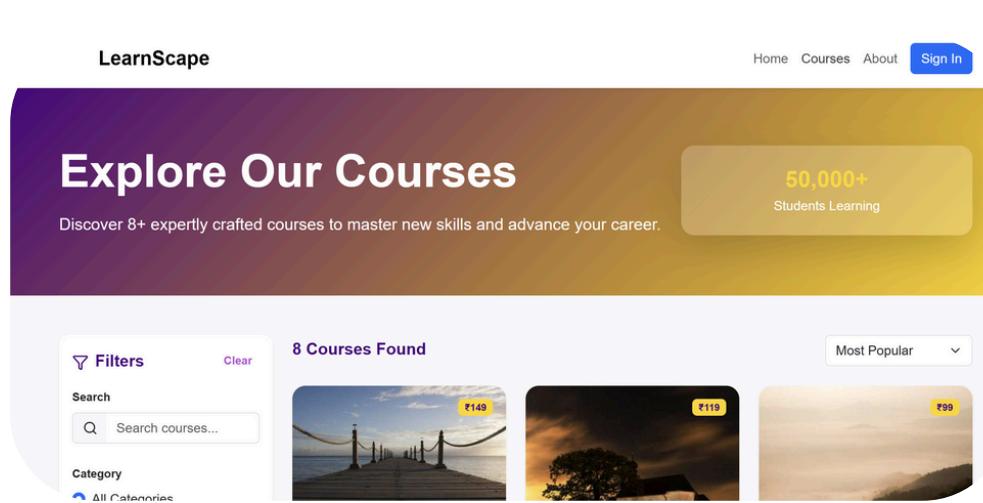


Demo Preview of LearnScape Interface



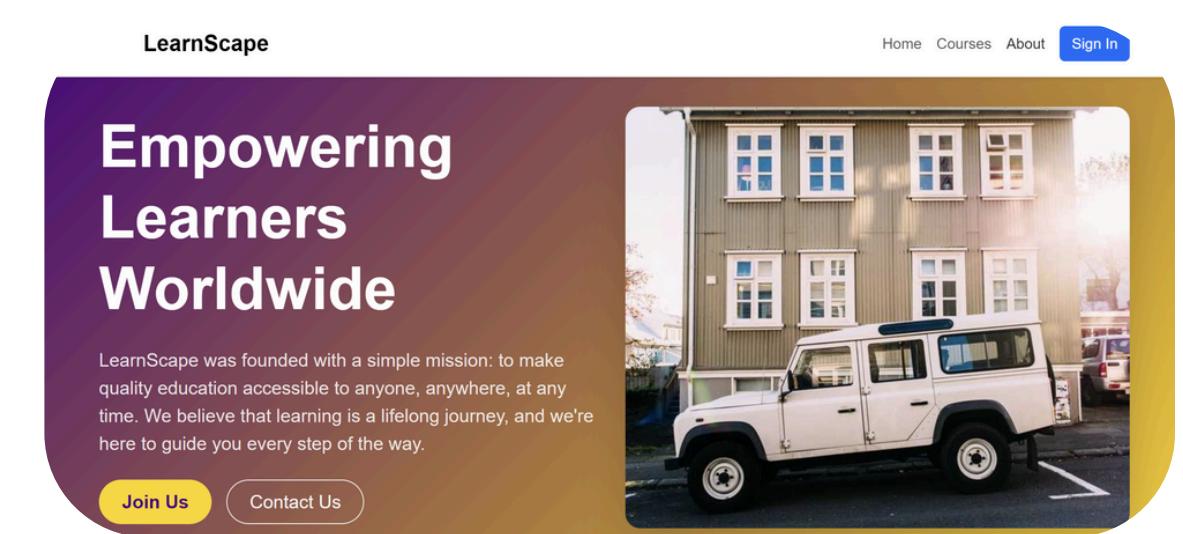
Home Page

Engaging layout for personalized learning experience



Courses Page

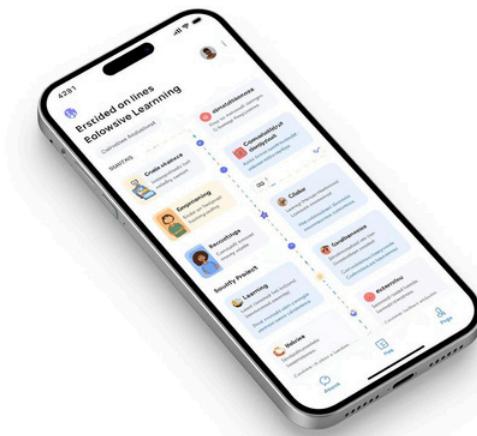
Highlighting diverse learning opportunities available



about page

Interactive tool for customized learning paths

Mobile Experience and Key Achievements



Mobile Adaptation

LearnScape is fully responsive on mobile devices.



User Dashboard

Achievements are visually represented for easy tracking.



Engaging Journey

Users can showcase their progress through badges.

Future Enhancements

Planned Improvements for LearnScape

- User dashboard and login system
- Cloud database for roadmap storage
- Gamification elements for user engagement
- AI-generated personalized study paths

Thank You

