

STUDY NEST

Website Structure & Pages

1. Landing Page

- Brief intro about the platform
- Call-to-action (CTA) for students to sign up/log in
- Overview of features (Course Tracking, Study Planner, etc.)

2. Dashboard (Subpage 1)

- Displays enrolled courses
- Course progress tracking with visual indicators
- Upcoming assignments/reminders

3. Course & Module Management (Subpage 2)

- List of available courses fetched from an external API
- Search and filter (e.g., by subject, difficulty, date added)

4. Profile & Settings (Subpage 3)

- User profile management
 - Accessibility options (dark mode)
 - Logout
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User Flow for Student Course Tracking Website

1. Landing Page (Homepage)

- Brief **welcome message** and introduction to the platform.
- **Sign Up / Log In** buttons for users to create an account or access their existing one.
- Quick overview of the platform's **key features** (e.g., track progress, access modules).

2. User Authentication

✓ New Users (Sign Up)

- Enter details (Name, Email, Password, Institution, Course of Study).
- Redirect to **Dashboard** after successful signup.

✓ Returning Users (Log In)

- Enter Email & Password (or Social Login).
 - Redirect to **Dashboard** after successful login.
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3. Dashboard (Main Hub)

📌 Key Features:

- Overview of **Enrolled Courses** (e.g., Course Name, Progress, Last Accessed).
 - **Upcoming Deadlines & Reminders** (Assignments, Tests, Study Sessions).
 - Quick **Access to Modules** (Video, PDF, Text-based Lessons).
 - A **Search Bar** to quickly find courses, materials, or tasks.
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4. Course & Module Management

✓ Access Course Modules:

- Select a course to view available modules.
- Each module contains **lecture materials** (PDF).
- Track progress per module (e.g., ✓ Mark as Completed).
- Search & filter course module name.

✓ Download & Save Materials:

- Option to download PDFs, slides, or other resources.
 - Bookmark important materials for quick access later.
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5. User Profile & Settings

👤 Customizable Options:

- Edit personal details (Name, Profile Picture, Course Info).
- Set notification preferences.

9. Logout & Session Management

Exit the Platform:

- Option to log out or stay signed in.
- Auto-logout after inactivity (for security).

NEEDED APIs

1. Authentication & User Management APIs

Auth API (OAuth / JWT Authentication)

- **Purpose:** Secure user login & registration.
- **APIs Needed:**
 - `POST /auth/register` → Register new users.
 - `POST /auth/login` → Log in users and generate JWT token.
 - `POST /auth/logout` → Log out users.
 - `GET /auth/user` → Get logged-in user details.
 - `PUT /auth/update-profile` → Update user profile details.

2. Course & Module Management APIs

Course API

- **Purpose:** Manage courses & modules.
- **APIs Needed:**
 - `GET /courses` → Fetch all available courses.
 - `GET /courses/{courseId}` → Fetch details of a specific course.

Module API

- **Purpose:** Manage course content & progress tracking.
- **APIs Needed:**
 - `GET /courses/{courseId}/modules` → Get modules in a course.
 - `GET /modules/{moduleId}` → Get details of a module.

- `POST /modules/{moduleId}/complete` → Mark module as completed.
 - `GET /modules/{moduleId}/progress` → Get user's progress in a module.
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4. Notifications & Reminders APIs

✓ Notification API

- **Purpose:** Send alerts about deadlines, study reminders, and course updates.
 - **APIs Needed:**
 - `POST /notifications/send` → Send a notification to a user.
 - `GET /notifications/{userId}` → Get user's notifications.
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5. File & Content Management APIs

✓ File Upload API

- **Purpose:** Upload & manage study materials (PDFs & Ms Word).
 - **APIs Needed:**
 - `GET /files/{fileId}/download` → Download study material.
 - **Storage Options:** AWS S3, Firebase Storage, Cloudinary.
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Summary of Required APIs

- 1 **User Authentication API** (Login, Register, Profile)
- 2 **Course & Module Management API** (Enroll, Access, Track)
- 4 **Notification API** (Reminders, deadlines, course updates)
- 5 **File Upload API** (PDFs, videos, slides)