

# Web Technology Mini Project

SEM: 3

Team Name: AURA++

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## **PES Connect – Unified Student Platform**

### **1. Overview:**

- PES Connect is an all-in-one web application designed exclusively for the students of PES University.
- It combines the most useful features of popular platforms like WhatsApp, Discord, Reddit, and a student resell marketplace, bringing everything into a single, seamless experience.

### **2. Objective:**

- To create a centralized digital ecosystem that enhances communication, collaboration, community engagement, and student convenience within PES University.

### **3. Key Features:**

#### **A. Chat & Messaging (Inspired by WhatsApp):**

- One-on-one and group chats with end-to-end encryption
- Media sharing (images, documents, voice notes)
- Status updates and notifications
- Seamless integration with PES student IDs

#### **B. Community & Collaboration (Inspired by Discord):**

- Create and join servers/clubs (e.g., coding clubs, departments, fests)
- Text and voice channels for real-time communication
- Role-based permissions for moderators and members
- Event announcements and activity scheduling

#### **C. Discussion & Knowledge Sharing (Inspired by Reddit):**

- Create topic-based forums for discussions
- Upvote/downvote system for quality content
- Tagging and filtering for specific topics (academics, placements, etc.)
- Anonymous posting for open sharing

#### **D. Resell & Exchange Platform:**

- A dedicated marketplace for students to **buy, sell, or exchange** items (books, electronics, hostel supplies, etc.)
- Verified student profiles for safe transactions
- Product listing with images and descriptions
- Chat feature between buyers and sellers

#### **4. Target Audience:**

- Students of PES University (all campuses and departments)
- Clubs, organizations, and event coordinators within the university

#### **7. Future Enhancements:**

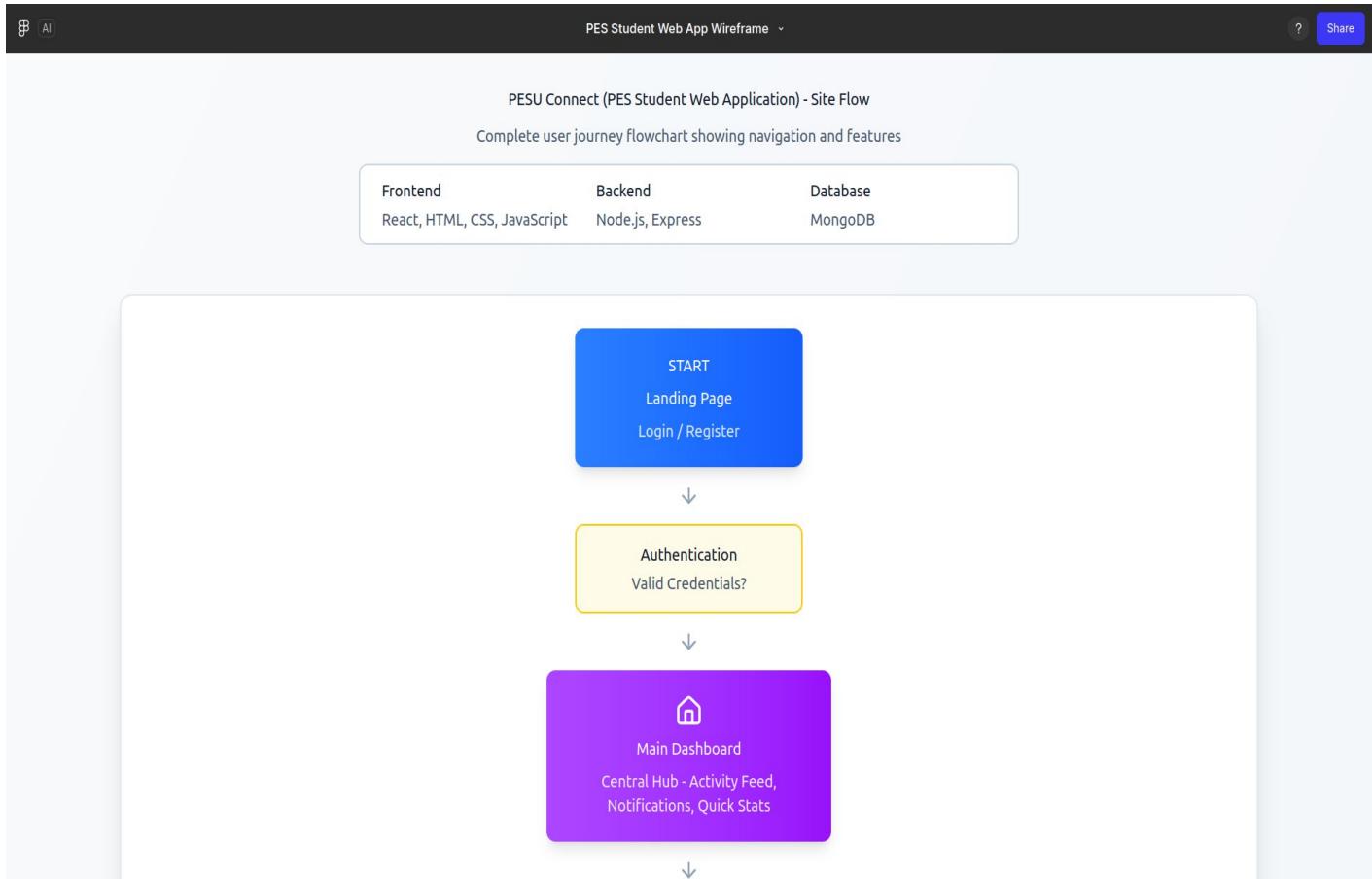
- Integration with university announcements and timetables
- AI-powered study groups and content recommendations
- Verified internship and project listings within the community

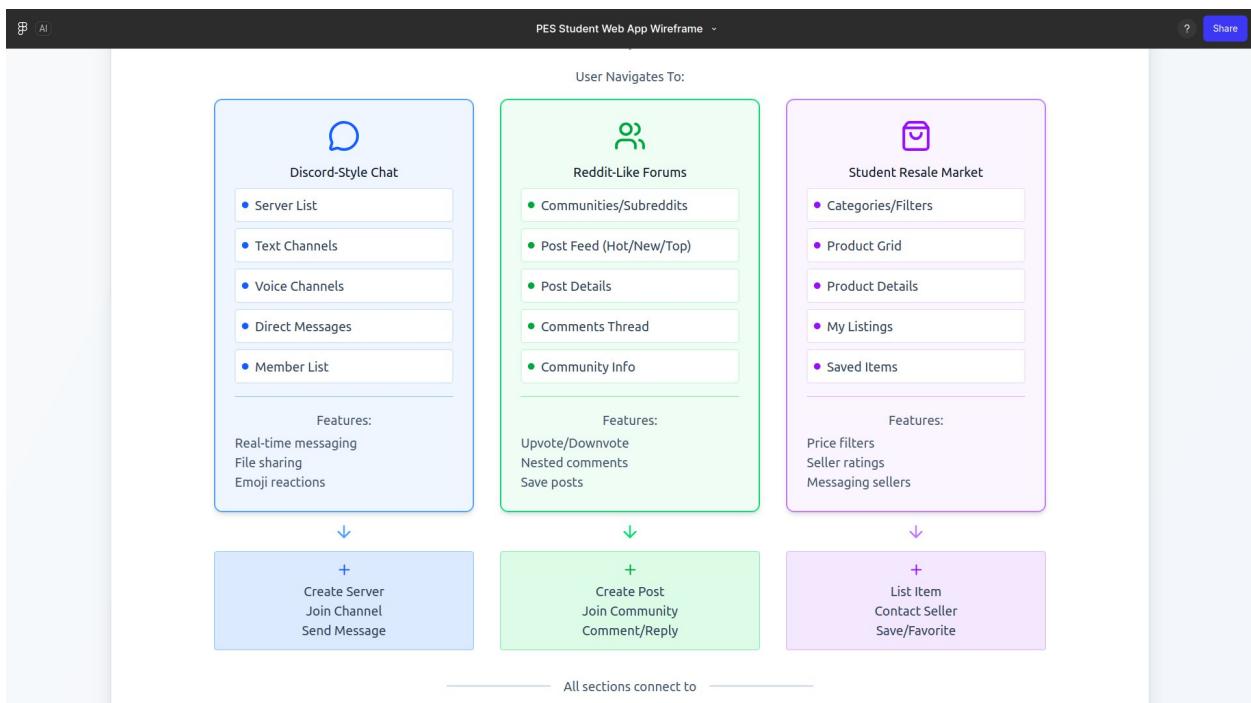
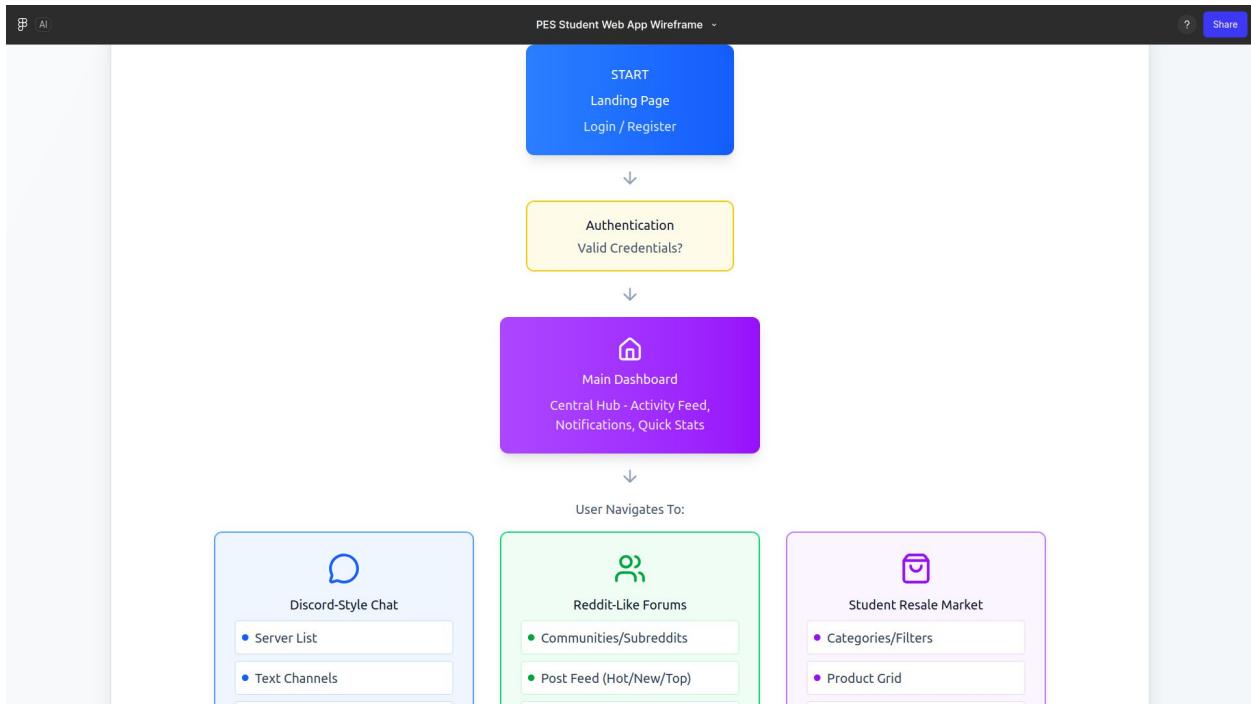
#### **7. Conclusion**

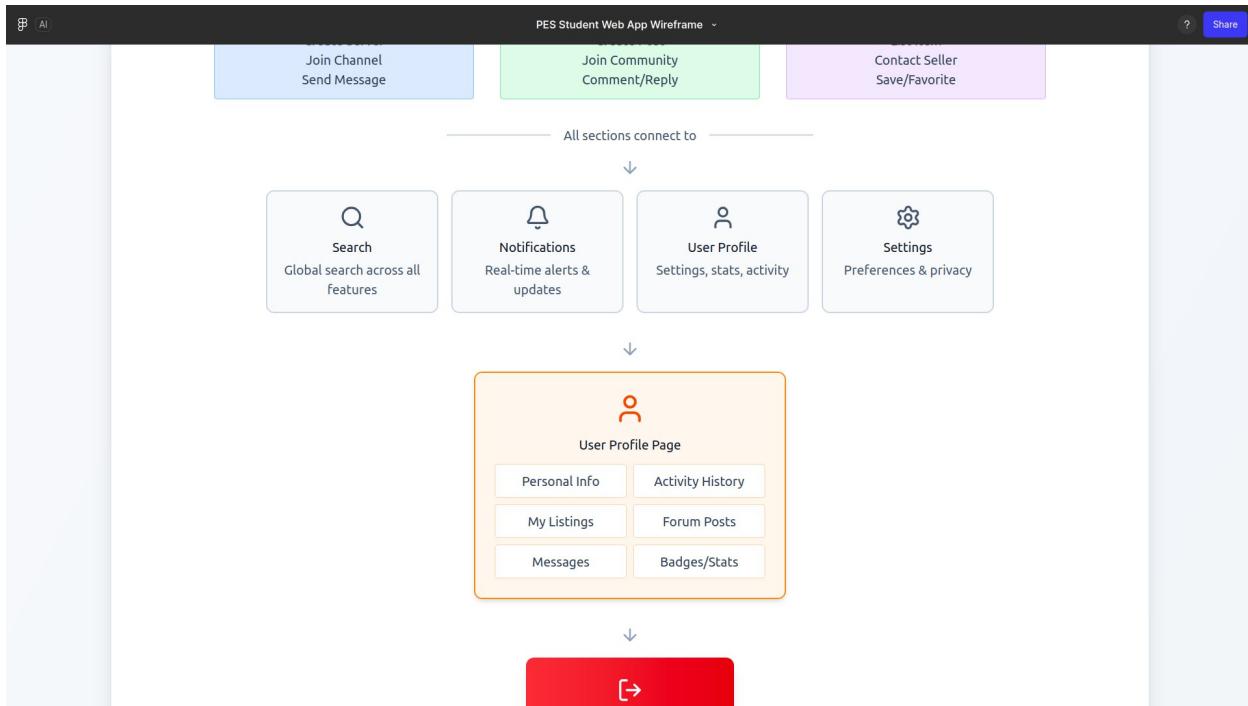
PES Connect aims to be the **digital home** for every PES student — a space to connect, collaborate, share knowledge, and support one another.

# WireFrame

Public link: <https://www.figma.com/make/V8tL5xZoY5hsI5SH6qNZjK/PES-Student-Web-App-Wireframe?fullscreen=1>







PES Student Web App Wireframe

Logout  
END SESSION

MongoDB Database Collections

Users	Messages	Posts	Listings
• Profile data	• Chat history	• Forum posts	• Products
• Authentication	• Channels	• Comments	• Transactions
• Preferences	• Servers	• Votes	• Reviews

Express.js REST API Endpoints

Authentication & Users	Chat & Forums	Resale Market
POST /api/auth/register	GET /api/messages	GET /api/listings
POST /api/auth/login	POST /api/messages	POST /api/listings
GET /api/users/:id	GET /api/posts	PUT /api/listings/:id
PUT /api/users/:id	POST /api/posts	DELETE /api/listings/:id

THE END