CodeGuideX – Minor Project Roadmap

1. What Are We Building?

CodeGuideX is a beginner-friendly website where learners can ask doubts, join topic-based groups, and get simple 1-on-1 help from mentors. Think of it as an online school with classrooms (communities), a notice board (posts), and a help-desk (mentorship sessions).

2. Tools We Use (Explained for a 14-Year-Old)

• React or Next.js – Helps us make website pages • Firebase – Stores users, posts, and community information • Stripe – Handles payments safely • Jitsi – Creates video call rooms

3. Part-by-Part Roadmap (Minor Project Only)

PART 1 — Basic Website Foundation

1. Login & Signup – A Login and SignUp page. Firebase handles signup, login, and storing user details.

2. Communities Page – Different groups or communities Like: JavaScript, DSA, Python. - Students choose which topic community they want to visit. They can choose multiple communities.

3. Posting & Questions - A student can write a doubt (post) and others can read it. - Posts are saved inside Firebase Firestore.

4. Comments - Other students can reply under the post. - This is like a mini-chat below each question.

PART 2 — Mentors, Booking, and Payments

5. Mentor Profiles - Mentors fill details like skills, price, and experience. - Their info is saved in the database.

6. Mentorship Request - A student clicks 'Book Mentor' and fills a simple form.

7. Payments (Stripe) - When student pays, the system creates a record saying 'payment complete'. - Stripe acts like the cash counter.

8. Video Call Room (Jitsi) - After payment, a special meeting room link is created. - Only mentor and student can join.

PART 3 — Extra Features + Testing + Deployment

9. Admin Panel - Admin can delete bad posts or remove users.

10. Upload Videos (Basic) - Mentors can upload simple tutorial videos.

11. Testing - You test all features on laptop and mobile.

12. Deployment - Using Vercel, you upload the website so everyone can use it online.

4. Simple Architecture (How Everything Connects)

User → Website (Next.js) → Firebase (Database) ↓ Stripe (Payment) ↓ Jitsi (Video Call)

5. Full Detailed Roadmap (Explained Simply)

STEP 1: Make the website skeleton - Create pages: Home, Login, Communities, Posts. - Add navbar and layout.

STEP 2: Add Login System - Click Google login →
Firebase handles everything. - Save user info in database.

STEP 3: Show Communities - Make a page that shows all topics. - When clicked, open that topic page.

STEP 4: Create Posts - Add form to create a doubt. - Save to database.

STEP 5: Add Comments - Let people reply to a doubt.

STEP 6: Build Mentor System Mentors fill a form with skills + price. - Show them on a Mentor page.

STEP 7:

Payment + Booking - When clicking 'Book', student pays via Stripe. - After payment → create meeting link.

STEP 8: Add Video Call - Embed Jitsi video call on meeting page.
STEP 9: Add Admin Panel - Admin can delete bad content. STEP 10: Deployment Upload website to Vercel.

6. Summary of Minor Project Features

✓ Login/Signup ✓ Communities ✓ Posts & Comments ✓ Mentors ✓ Booking Session ✓ Payments ✓ Video Call ✓ Admin Panel ✓ Deployment

7. What Is NOT Included (Major Project Features)

■ AI Doubt Solver ■ Chat Messaging ■ Subscription Model ■ Automatic Mentor Payouts ■ Mentor Analytics ■ Mobile App ■ Advanced Video Streaming These belong to the Major Project (Phase 2), not this PDF.