International Islamic University Chittagong

Department of Computer Science and Engineering

Final Project
On
"Telemedicine Mobile App"

Submitted By
Name Team: Singular Spectrum
Name: Nafija Tabassum Nirjana
ID: C191219
Batch Code: CBI-016
Course Name: User Experience (UX) Design

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Submitted To
Md. Mainul Hossen

Problem Statement:

Making it easy to reach out to the best doctor in the country without actually visiting them. In rural areas, there is no easy access to specialist doctors. So we are planning to build an app to help them to get treated easily.

Solutions:

In our app we are trying to build a bridge between the doctors and patients. Focusing on users, we will design our app as easy as possible.
- Layouts and options are easy to understand.
- Doctor and patient have different app
- Admin dashboard will also be included.
- Authentication is on priority.

Information Architecture:

A. Patient Module

Designed focusing on easy to use and managing all Services:

1. **User Registration and Login:**
   - Email based registration.
   - Two-factor authentication for security.
2. **Profile Management:**
   - Personal details (name, age, gender, etc.).
   - Medical history and records upload.
   - Insurance details and payment preferences.
3. **Doctor Search and Booking:**
   - Search by specialty, availability.
   - Filters for doctor ratings, fees, and experience.
   - View doctor profiles and ratings.
4. **Appointment Management:**
   - Schedule, or cancel appointments.
   - Notifications for upcoming appointments.
5. **Video/Audio Consultations:**
   - Secure, real-time video and audio communication.
   - In-call features: Chat, file sharing, and note-taking.
6. **Prescription Management:**

- Digital prescriptions with download and print options.
- Integration with pharmacies for home delivery.
7. **Feedback and Support:**
   - Submit feedback on consultations.
   - In-app support chat for technical or medical queries.

B. Doctor Module

Designed focusing on easy to use and managing all Services:

1. **Doctor Registration and Verification:**
   - Profile creation with credentials and certifications.
   - Verification by admin for authenticity.
2. **Appointment Management:**
   - Accept, reject, or reschedule appointments.
   - Manage daily schedules and availability.
3. **Patient Interaction:**
   - View patient medical history and current issues.
   - Conduct consultations via video/audio calls.
   - Share digital prescriptions and notes.
4. **Earnings Dashboard:**
   - Track consultation fees and payouts.
   - View earnings history and generate invoices.
5. **Notification System:**
   - Alerts for upcoming consultations and patient messages.

C. Admin Module

Features to manage app operations, monitor activity, and ensure compliance:

1. **User and Doctor Management:**
   - Approve or reject user and doctor registrations.
   - Manage user profiles and access levels.
2. **System Monitoring:**
   - Track active users, consultations, and transactions.
   - Generate reports on app usage and performance.
3. **Content Management System (CMS):**
   - Update FAQs, terms, and policies.
   - Manage banners and promotional content.

4. **Financial Management:**
    - ○ Oversee payment transactions and resolve disputes.
    - ○ Track revenue and payouts to doctors.
5. **Analytics and Insights:**
    - ○ Analyze user behavior and feedback.
    - ○ Monitor app performance with KPIs (e.g., retention rate, consultation success rate).
6. **Support Tools:**
    - ○ Manage tickets for user and doctor issues.
    - ○ Assign and track resolution statuses.

Sitemap

Figma(url):
https://www.figma.com/board/dzj7ijd2LTC3R51Yr8rGIT/Telemed?node-id=0-1&t=cSTovFM9baw1o7tx-1

Wireframing

Figma(url):
https://www.figma.com/design/NtMutcZ87ExfzUpd5y8Kkm/telemed?node-id=31-138&p=f&t=Nj4Z2zb1UawyBZJ9-0

UI and Prototype

UI - Figma(url):
https://www.figma.com/design/NtMutcZ87ExfzUpd5y8Kkm/telemed?node-id=81-2825&t=QM3a7IaZfkOG3EaA-1

Prototype - FIgma(url):
https://www.figma.com/proto/NtMutcZ87ExfzUpd5y8Kkm/telemed?node-id=219-721&t=IdHyoEM049iam94S-1&scaling=scale-down&content-scaling=fixed&page-id=81%3A2825&starting-point-node-id=219%3A721&show-proto-sidebar=1