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**Project Proposal**

CSE299.9

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**Group :** 6

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**Project :** “***Auréva”*** E-Commerce Cosmetics Application

**Teacher’s Signature**

**Problem Statement**

In today’s digital age, while e-commerce platforms thrive, cosmetic buyers still face a fragmented and inefficient online shopping experience. Many existing platforms lack proper filtering, product visualization, and localized support systems for managing orders or feedback.

This creates challenges such as:

* Difficulty finding specific cosmetic items with desired attributes (e.g., shade, type, skin compatibility),
* Limited admin control for small-to-midscale cosmetic businesses,
* Inefficient checkout and order tracking systems,
* Lack of intuitive mobile interfaces focused specifically on cosmetics.

1. **Introduction**

**Auréva** is a mobile-based full-stack e-commerce solution designed specifically for cosmetic shoppers and sellers. Developed as part of our CSE coursework, Auréva blends frontend excellence, scalable backend integration, and real-world database architecture to address gaps in cosmetic product e-commerce.



1. **Purpose & Scope**

**Purpose**:  
To create a seamless, cross-platform mobile app that connects cosmetics buyers and sellers with an enhanced user interface and comprehensive admin backend.

**Scope**:

* Support for Android and iOS (via React Native)
* Full admin panel for seller-side operations
* Secure user authentication and order processing
* Payment integration via SSLCommerz

1. **Objectives**

* Design a responsive, user-friendly interface
* Enable advanced features like filtering, wishlist, secure checkout
* Integrate Firebase Authentication for secure login
* Develop an admin panel with product, user, and order management
* Enable product reviews, ratings, and delivery tracking

1. **Target Users**

* General Users (Customers): Browse and purchase products easily via mobile.
* Admin Users (Sellers/Moderators): Manage product listings, monitor sales, and engage with users through reviews and order updates.

1. **Key Features**

User Side:

* Home screen with banners and product categories
* Detailed product view with images, reviews, and stock info
* Cart and wishlist management
* Checkout and SSLCommerz payment
* User profile, login/registration
* Review and rating system

Admin Panel:

* Sales dashboard
* Add/Edit/Delete product listings
* User and review moderation
* Order tracking with status updates

1. **Technical Stack**

| **Component** | **Technology** |
| --- | --- |
| Frontend | React Native |
| Backend | Node.js |
| Database | MySQL |
| Authentication | Firebase Auth |
| Payment Gateway | SSLCommerz |

1. **System Architecture**

* Frontend (Mobile App): React Native handles user interaction.
* Backend API Layer: Node.js handles API requests from app/admin.
* Database Layer: MySQL stores user, product, order, and review data.
* Admin Panel: Accessible interface for sellers via browser.

**Entity Tables:**

1. Users
2. Products
3. Orders
4. Cart
5. Wishlist
6. Reviews

**8. Budget**

| **Item** | **Description** | **Estimated Cost (BDT)** |
| --- | --- | --- |
| Domain Name (1 year) | auréva.com or similar | 1,500 |
| Hosting (Shared/Student Plan) | Basic hosting plan for backend (Node.js + MySQL) | 3,000 |
| Firebase Authentication | Free tier sufficient for prototype | 0 |
| SSLCommerz Integration | Usually free for sandbox; minor fee for live integration | 1,500 |
| Mobile Development Tools | React Native (open-source), Expo CLI | 0 |
| Design Tools | Figma/Canva (free plans used) | 0 |
| Testing Devices (shared) | Android/iOS devices for testing (team-owned, not purchased anew) | 0 |
| Miscellaneous (internet, printing) | Printing reports, occasional paid plugins, internet for collaboration | 1,000 |

**Total Estimated Budget: 7,000 BDT**  
*Note: As this is a student project, all team members are working voluntarily without compensation.*

* 1. **Conclusion**

Auréva represents a focused and scalable solution tailored for the beauty and cosmetics market. By leveraging full-stack technologies and real-world use cases, the project showcases both technical skill and product thinking. The app is designed for professional usability and future expansion into a larger ecosystem.