**College Marketplace Project Proposal**

**Introduction**

The **College Marketplace Project** aims to create an online platform where students can buy and sell or customized items within the college community. The idea is to have a safe place where students can interchange items of common interest.

**Project Overview**

**Features**

1. **Product Listings**
   * Users can create detailed listings for their handmade products.
   * Each listing includes descriptions, prices, images, and delivery options.
   * Categories and conditions.
2. **Search and Filter Functionality**
   * Buyers can search for specific items using keywords or explore categories.
   * Filters allow users to refine their search based on price range, location, and other criteria.
3. **User Profiles**
   * Every user has a profile where they can manage their listings and view their transaction history.
   * Personal information can be updated within the profile.
4. **Messaging System**
   * Buyers and sellers can communicate directly through our messaging system.
   * This ensures smooth transactions and allows users to ask questions about products.
5. **Secure Transactions**
   * We prioritize user safety.
   * All transactions are conducted securely, with payment options including PayPal and credit cards.

**Technical Details**

1. **Technology Stack**
   * A combination of technologies such as Node.js, Go, MySQL (or any other database system), and front-end frameworks (e.g., React or Vue.js).
   * Hosting options include platforms like AWS.
2. **Database Setup**
   * Create a database to store user profiles, product listings, and transaction records.
   * Define the schema and relationships between tables.
3. **Front-End Development**
   * Design user-friendly interfaces for listing creation, search, and user profiles.
   * Implement layouts for both desktop and mobile devices.
4. **Back-End Development**
   * Set up routes for handling user authentication, product listings, and messaging.
   * Implement validation and error handling.

**Project Timeline**

1. **Week 1-2: Planning and Setup**
   * Define project requirements and finalize the feature list.
   * Set up the development environment, including version control (Git).
2. **Week 3: Front-End Development**
   * Create wireframes and mockups for the user interface.
   * Develop the front-end components and integrate them with the back end.
3. **Week 4-5: Back-End Development**
   * Build the server-side logic, including authentication and database interactions.
   * Test API endpoints and ensure data integrity.
4. **Week 6: Testing and Refinement**
   * Conduct thorough testing of the application.
   * Address any bugs or issues.
5. **Week 7: Deployment and Documentation**
   * Deploy the application to a hosting platform.
   * Write comprehensive documentation (including this proposal) for future reference.
6. **Week 8 – Onward: Bug Fixing**

**Conclusion**

The **College Marketplace Project** aims to provide a user-friendly platform to allow students to connect with fellow buyers and sellers.