**Detailed proposal, detailed approach and understanding of this project.**

**Project Title: OTC Trading Platform Development**

**Platform: Hybrid Apps & Website + admin panel**

**Project Overview**: This project involves developing an OTC (Over the Counter) trading platform with a website, hybrid mobile apps (for both Android and iOS), and an admin panel. The platform will serve as a mediator between buyers and sellers, charging a percentage from both sides. It will feature realtime market data, secure user account management, and trade analytics, with distinct user roles for Admin, Trader, and Viewer.  
 **Project Outline**  
**1. Objective**: To develop a secure, transparent, and efficient OTC (Over the Counter) trading platform that serves as a marketplace where users can buy and sell securities. The platform will act as a mediator, ensuring transparency and charging a percentage fee from both buyers and sellers. The solution will include a website, hybrid mobile apps, and an admin panel to provide a seamless experience across devices.

**2. Key Features:**

* **Real Time Market Data**: Integration of live data feeds with customizable dashboards.
* **User Account Management:** Secure, role based access with multifactor authentication.
* **Trade Analytics:** Performance tracking, custom reports, and visual analytics.
* **Cross Platform Access:** Responsive website and hybrid mobile apps with realtime data synchronization.
* **Admin Panel:** Full control for user management, trade monitoring, and analytics.
* **Security & Compliance:** SSL/TLS encryption, regular security audits, and adherence to financial regulations.

**3. Implementation:**

* **Requirements Gathering**
* **Design & Prototyping**
* **Backend & Frontend Development**
* **Admin Panel Development**
* **Testing & Quality Assurance**
* **Deployment**
* **Support & Maintenance**

**SOW Includes**

**Key and Core Features for OTC (Over theCounter) trading platform**

**1. Real Time Market Data:**

* **Live Data Feeds:** Integration with reliable data sources to provide real time stock market prices, trends, and historical data.
* **Customizable Dashboards:** Users can personalize their view with widgets, charts, and market summaries to make informed trading decisions.

**2. Secure User Account Management:**

* **Multi Factor Authentication (MFA):** Enhanced security for user accounts to prevent unauthorized access.
* **Role Based Access Control:** Distinct roles for Admin, Trader, and Viewer, each with specific permissions and access levels.
* **Profile Management:** Secure storage and management of personal and financial information for all users.

**3. Trade Analytics:**

* **Performance Tracking:** Detailed metrics for users to analyze their trading history, profit/loss, and market performance.
* **Custom Reports:** Ability to generate and download reports based on various criteria like time periods, trade types, or specific securities.
* **Visual Analytics:** Interactive charts, graphs, and visual tools to simplify the analysis of trading data.

**4. Cross Platform Accessibility:**

* **Responsive Website:** A web platform that works seamlessly across desktops, tablets, and mobile browsers.
* **Hybrid Mobile Apps**: Cross platform apps (Android and iOS) providing the same functionalities as the website, with real time synchronization.
* **Push Notifications:** Realtime alerts for trade executions, market movements, and other important updates on mobile devices.

**5. Admin Panel:**

* **Comprehensive Management Tools:** Full control over the platform for managing users, monitoring trades, and adjusting system settings.
* **Advanced Analytics:** Admins have access to detailed analytics and reporting to oversee platform performance and user Activities includes includes.
* **Security Management:** Tools for enforcing security protocols, viewing Activities includes includes logs, and managing permissions.

**6. Secure Payment Processing:**

* **Integrated Payment Gateway:** Secure handling of transactions, including deposit, withdrawal, and fee processing.
* **Fee Management:** Automated calculation and deduction of mediator fees from both buyers and sellers during transactions.

**7. Data Security & Compliance:**

* **SSL/TLS Encryption:** Secure transmission of data to protect sensitive information.
* **Regular Security Audits:** Ongoing security checks to identify and fix vulnerabilities.
* **Regulatory Compliance:** Adherence to financial regulations, including Know Your Customer (KYC) and Anti Money Laundering (AML) requirements.

These core features are designed to ensure the platform is secure, user friendly, and provides a seamless trading experience across devices while maintaining transparency and trust in OTC transactions.

**OTC (Over theCounter) trading platform User Flow**

**User Flow for OTC Trading Platform: Web and Mobile App**

**1. User Registration & Onboarding:**

**Web:**

* Account Creation:
* Navigate to the registration page.
* Enter details (name, email, password) and click "Sign Up."
* Verify email through a confirmation link sent to the provided email.

**KYC Verification:**

* Log in to the web platform.
* Upload KYC documents (ID, proof of address) via the profile section.
* Admin reviews and approves KYC documents.

**Role Assignment:**

* User receives confirmation of their role (Trader, Viewer) via email and dashboard notification.

**Mobile App:**

**Account Creation:**

* Open the app and select "Sign Up."
* Enter personal details and tap "Register."
* Verify account through an in app email or SMS link.

**KYC Verification:**

* Log in to the app and navigate to the KYC section.
* Upload necessary documents using the phone’s camera or file picker.
* Receive approval notification once KYC is reviewed.

**Role Assignment:**

* Role confirmation is displayed in app and via push notification.

**2. Login & Dashboard Access:**

**Web:**

**Login:**

* Visit the login page.
* Enter credentials and complete MFA if enabled.
* Access the dashboard upon successful authentication.

**Dashboard Overview:**

* Trader: View market data, trading options, and analytics.
* Viewer: Access market data and trade observations.
* Admin: Manage users, view platform analytics, and system settings.

**Mobile App:**

**Login:**

* Open the app and enter login credentials.
* Complete MFA using SMS or authenticator app.
* Access the dashboard after successful login.

**Dashboard Overview:**

* Trader: Check realtime market data, execute trades, and analyze performance.
* Viewer: Observe market trends and trade activities.
* Admin: Access admin tools, user management, and platform analytics.

**3. Trading Process (For Traders):**

**Web:**

**Market Analysis:**

* Use interactive charts and market summaries on the dashboard.

**Placing an Order:**

* Select a security, input trade details, and confirm the order.

**Order Execution:**

Receive a confirmation message onscreen and via email.

**Post Trade Analysis:**

* View trade details and generate reports using web based analytics tools.

**Mobile App:**

**Market Analysis:**

* Swipe through charts and data summaries.

**Placing an Order:**

* Tap on a security, enter trade details, and submit the order.

**Order Execution:**

* Get in app notifications confirming trade execution.

**Post Trade Analysis:**

* Review trade history and performance metrics inapp.

**4. Payment & Fee Processing:**

**Web:**

**Transaction Settlement:**

* Automated fee calculation and deduction during trade execution.
* View transaction history and account balance on the web platform.

**Deposits & Withdrawals:**

* Access payment options via the account settings page.
* Complete transactions through secure payment gateways.

**Mobile App:**

**Transaction Settlement:**

* Fees are deducted automatically, with details visible inapp.
* Check balance and transaction history from the app’s account section.

**Deposits & Withdrawals:**

* Use integrated payment options to manage funds.
* Complete deposits and withdrawals using inapp payment methods.

**5. Admin Functions:**

**Web:**

**User Management:**

* Access user management tools, review and approve registrations.
* Assign roles and manage user permissions.

**Monitoring & Reporting:**

* Generate and view detailed analytics and reports on the web dashboard.

**System Maintenance:**

* Adjust system settings, enforce security protocols, and view Activities includes includes logs.

**Mobile App:**

**User Management:**

* Limited admin functions available through a dedicated admin app section.
* Manage user approvals and role assignments via mobile interface.

**Monitoring & Reporting:**

* Access high level analytics and alerts via mobile notifications.
* System Maintenance:
* Basic system settings adjustments and monitoring through the admin interface.

**6. Notifications & Support:**

**Web:**

**Real Time Alerts:**

* Notifications for trades, market movements, and account activities displayed onscreen.
* Customer Support:
* Access support via chat or email through the help section.

**Mobile App:**

**Real Time Alerts:**

* Push notifications for trade confirmations, market updates, and account activities.
* Customer Support☹(optional)
* Contact support through in app chat, email, or call features.(optional)

**7. Logout & Security:**

**Web:**

**Logout:**

* Click "Logout" from the account menu.
* Automatic logout after inActivities includes includes for security purposes.

**Session Management:**

* View and manage active sessions via account settings.

**Mobile App:**

**Logout:**

* Tap "Logout" from the app menu.
* Automatic logout after inActivities includes includes or from settings.

**Session Management:**

* Manage sessions through the app’s security settings.

**This user flow ensures a seamless and secure experience for both web and mobile app users, addressing all key interactions from registration to trading and management.  
  
This user flow is as per our first discussion, any changes required scope changes and also there will be change in time & money.  
  
This SOW requires team of developers, designers,Quality assurance engineers and we can deliver a high quality Android app**

**Development Plan for OTC (OvertheCounter) trading platform**

**Steps of Development Plan for OTC Trading Platform**

**1. Planning & Requirements Gathering**

**Objective**: Defining the project scope, gather detailed requirements, and plan the development process.

Activities includes

* Conducting meetings with stakeholders to finalize requirements.
* Documenting functional and nonfunctional requirements.
* Defining project milestones and deadlines.
* Creating a project roadmap and allocate resources.

**2. Design & Prototyping**

**Objective:** Developing UI/UX designs and prototypes for the website and mobile apps.

**Activities:**

**UI/UX Design:**

* Creating wireframes and mock ups for the website and mobile app interfaces.
* Designing user flows and navigation paths.
* Developing interactive prototypes for user testing and feedback.

**Feedback & Iteration:**

* Conducting design reviews with stakeholders.
* Refining designs based on feedback and usability testing.

**3. Backend Development**

**Objective:** Building the server side infrastructure, database, and API integrations.

Activities includes

**Database Design:**

* Designing and implement the database schema for user data, transactions, and market data.
* API Development:
* Developing APIs for real time market data integration, trade execution, and user management.

**Security Implementation:**

* Implementing security measures including encryption, MFA, and secure authentication.

**Payment Integration:**

* Integrating payment gateways for handling deposits, withdrawals, and fee processing.

**4. Frontend Development**

**Objective:** Develop the user facing parts of the website and mobile apps.

**Activities:**

**Website Development:**

* Build the responsive website using HTML, CSS, and JavaScript frameworks.
* Implement real time data display, user interfaces, and admin functionalities.

**Mobile App Development:**

* Develop hybrid mobile apps using frameworks like Flutter or React Native.
* Implement app specific features such as push notifications and in app purchases.

**5. Admin Panel Development**

**Objective**: Create a comprehensive admin panel for managing users, monitoring trades, and generating reports.

**Activities:**

* Develop admin functionalities including user management, trade oversight, and system settings.
* Implement reporting and analytics tools for performance monitoring.

**6. Testing & Quality Assurance**

**Objective:** Ensure the platform is functional, secure, and performs well across all devices.

**Activities:**

**Unit Testing:**

* Test individual components and functionalities for correctness.

**Integration Testing:**

* Verify that different parts of the system work together seamlessly.

**User Acceptance Testing (UAT):**

* Conduct testing with a group of end users to validate usability and functionality.

**Security Testing:**

* Perform security audits and penetration testing to identify vulnerabilities

**7. Deployment**

**Objective:** Launch the platform and make it available to users.

**Activities:**

**Website Deployment:**

* Deploy the website on a secure web server with SSL/TLS encryption.

**Mobile App Deployment:**

* Publish mobile apps to app stores (Google Play, Apple App Store) after final approval.

**Admin Panel Deployment:**

* Deploy the admin panel on the web server with appropriate access controls.

**8. Post Launch Support & Maintenance**

**Objective:** Provide ongoing support and maintenance to ensure platform stability and address any issues.

**Activities:**

**Monitoring & Support:**

* Monitor system performance, user activities, and security alerts.
* Provide technical support and address user reported issues.

**Updates & Enhancements:**

* Release updates to fix bugs, add new features, and improve performance.

**Regular Backups & Security Reviews:**

* Perform regular data backups and conduct periodic security reviews.

**Timeline and Milestones**

1. **Planning & Requirements Gathering (1 weeks)**
2. **Design & Prototyping (1-2 week)**
3. **Backend Development (2-4 week)**
4. **Frontend Development (4-5 week)**
5. **Admin Panel Development (5-6 week, concurrent with frontend development)**
6. **Testing & Quality Assurance (2 weeks)**
7. **Deployment (1 weeks)**
8. **Post Launch Support & Maintenance (Ongoing)**

This document is as per first meeting with client if any functionality changes or any new scope defined middle of development impact scope changes and for this the three major constraints will be changed which is time, budget and scope.

This development plan outlines the key phases and activities required to build and launch a robust OTC trading platform, ensuring a structured approach to delivering a secure and user friendly solution.

**Technology Stack**

* Frontend: Html,css,js,react js for web.
* Frontend: Flutter or React native for Mobile Hybrid apps
* Backend: Node.js
* Database: MongoDB
* Cloud Services: AWS for hosting and scalability.
* API: internal + external apis (required as per client requirement) all external apis will be excluded

**Team Structure**

* Project Manager: Oversees the project, manages timelines, and coordinates the team.
* UI/UX Designer: Designs the app interface and user experience.
* Frontend Developers: Build the mobile app & web.
* Backend Developers: Develop the server side logic and database.
* QA Testers: Ensure the app is bug free and performs well.

# **Execution Timeline**

We’ve offered a basic guide for the timeframe of delivery and what your client can expect to be charged. We estimates that it will take 50 to 60 working days to complete your App. Upon signing this agreement, we can begin immediately.   
Here’s what to expect:

**Process Delivery**

Planning, research/outreach 1 Week

Design, consultant 1-2 Week

Development 2-4 Weeks

Testing, launch and Upload 1 Week

# **Project Costs**

**OTC (Over The Counter) Trading platform**  
The table below details the costs associated with this project

| **Name** | **Price** | **QTY** | **Subtotal** |
| --- | --- | --- | --- |
| **OTC (Over The Counter) trading platform**  Website + Android + Ios + Web admin | **USD 7500** |  | **USD 7500** |

**This is as per our first conversation project, all external apis will be provided by client only.**

**Total 7500 USD****Note: We have read your requirement properly, We can build your product in very good timeline, We are confident in our ability to deliver a high quality solution and look forward to the opportunity to work with you.(Also we are open to discuss on commercial)  
All third party Api will be Excluded.Ex:Sms gateway, location, Etc.**