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| Feature for Evalo |
| A Proposal from Nortcele Systems to Evalo |
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| Version: 0.1 |
| Date: 06-11-2023 |
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| About the Document |
| Title: Porting of the Evalo app from Android to Flutter |
| Current Version: 0.1 |
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1. Overview

Evalo, Software for Property Valuation Business, is robust and meticulously designed to save time at every step. It is revealed in mobile and web applications which are used to collect property details from the site by the field engineer and report preparation (Maker & Checker) in office by the operator & reviewer/approver.

It’s Data Entry shortcuts and Drop Downs to reduce error & rework, Dedupe Functionality to replicate Valuations into various Formats to reduce effort, Valuation Comparable to Strengthen Opinion, Structured Data stored in the server to comply with Client’s NDA, and so much more.

Evalo was conceptualized and designed to manage the below functions automatically & more efficiently than the conventional systems.

**Time Management**

Simplified processes and standardized operations will result in saving time for the team.

**Risk Management**

Opportunity and Risk come in pairs. Higher the process controls higher is the ability to scale up business.

**Report Management**

It’s pain to follow multiple bank formats. Standardise own format for internal data collection and allow Evalo to automatically customise the report to the client format.

**Data Management**

Healthy data will make you wealthy. Cloud based data management system ensure data is stored app **Team Management**

They are our backbone. Understanding their performance will help you reward the real performers and decide on non-performers.

**Client Management**

Client expectations are changing dynamically. The “ahead of time” 5 stage engagement models keeps the client updated on a real time basis.

1. Project Scope

The project will encompass the following tasks:

1. **Feasibility Analysis**: Conduct a thorough assessment to determine the technical feasibility and potential challenges of porting the Evalo app to Flutter.
2. **Code Migration**: Rewrite and restructure the existing Android codebase using the Dart programming language and the Flutter framework.
3. **UI/UX Refinement**: Utilize Flutter's flexible UI toolkit to enhance the user interface, ensuring a seamless experience on both Android and iOS devices.
4. **Integration Testing**: Rigorously test the application on various devices and screen sizes to ensure optimal performance and functionality.
5. **Bug Fixing**: Address any issues or discrepancies that arise during the migration process.
6. **Performance Optimization**: Fine-tune the application for optimal performance on both platforms.
7. **User Acceptance Testing (UAT)**: Conduct thorough testing with end-users to validate the functionality and usability of the Flutter version.
8. **Deployment and Release**: Publish the Flutter version of the Evalo app on the Google Play Store and Apple App Store.
9. **Documentation and Knowledge Transfer**: Provide comprehensive documentation for future maintenance and support. Conduct knowledge transfer sessions for the development team.
10. Technical Proposal

**Technology Stack:**

The technical architecture of the Evalo app will be built upon the following technologies:

* **Frontend**:
  + Framework: Flutter (for cross-platform compatibility)
  + Languages: Dart
  + UI/UX Design: Material Design for Android, Cupertino for iOS
* **Backend**:

Backend will be maintained by the team Evalo.

* **Data Integration**:
  + RESTful APIs for third-party data sources (e.g., property databases, geospatial data)
* **Hosting and Deployment**:
  + Cloud Platform: AWS (Amazon Web Services)
  + Continuous Integration/Continuous Deployment (CI/CD) Pipeline
* **Security**:
  + Data Encryption: SSL/TLS for secure data transmission
  + Authentication and Authorization: Role-based access control (RBAC)

**Development Methodology:**

We propose adopting an Agile development methodology, utilizing one-week sprints for iterative development, feedback, and rapid feature deployment.

**Functional Modules**

The Evalo app will consist of the following functional modules:

1. **User Authentication and Authorization**:
   * User registration, login, and password recovery
   * Role-based access control (admin, valuer, client)
2. **Property Data Integration**:
   * Integration with external property databases and APIs for comprehensive data retrieval.
3. **Valuation Dashboard**:
   * Intuitive interface for valuers to manage valuation projects, view property details, and conduct valuations.
4. **Reporting Engine**:
   * Generate customized property valuation reports with interactive charts, graphs, and visualizations.
5. **Data Analysis and Insights**:
   * Utilize Elastic search for advanced property data search, analysis, and insights.
6. **Geospatial Integration**:
   * Integrate geospatial data for accurate property location-based valuation.
7. **Offline Mode (Optional)**:
   * Implement offline capabilities for valuers to conduct valuations in areas with limited connectivity.
8. **Notifications and Alerts**:
   * Real-time notifications for project updates, deadlines, and client interactions.

**Timeline and Milestones**

The project is estimated to be completed within [insert estimated timeline]. Key milestones include:

1. **Backend Development and Database Setup**: [insert timeline]
2. **Frontend UI/UX Design and Development**: [insert timeline]
3. **Integration with Third-Party Data Sources**: [insert timeline]
4. **Reporting Engine Implementation**: [insert timeline]
5. **Testing and Quality Assurance**: [insert timeline]
6. **Deployment and User Acceptance Testing (UAT)**: [insert timeline]
7. Project Execution & Responsibilities
   1. Project Execution

The project execution has been depicted in below diagram

**Planning**

**Work breakdown structure**

**Resource Allocation**

**Requirement**

**Estimation**

*Planning Phase*

**Tracking, Monitoring**

**Initial Review**

**Final Review**

**Root Cause Analysis & Lessons Learnt**

**Knowledge Gap/ Competency improvement**

**Periodic metrics tracking/ reviews/ data sharing**

*Execution Phase*

*Post Delivery*

**Evalo**

**Nortcele**

**Final Acceptance Test**

**SDLC**

**Agreed support**

1. Project Execution
   1. SPOC Responsibilities

The delivery team with R&R

1. **Resource Planned and R&R**

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| --- | --- | --- | --- |
| S# | Name | R&R | Comments |
| 1 | Shikher Tiwari |  |  |
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1. Resource – Team composition

* SPOC shall be identified as single point of contact for Technical and project management for all deliveries of this project.
* Escalation point of contact shall also be SPOC.
* SPOC shall provide staffing for this project.
* Reporting progress of Task every week to Evalo.
  1. Customer Responsibilities
* Evalo shall provide single point of contact for technical and material support.
* All the dependencies on [Project Name] shall be handled by SPOC

1. Risk

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Risks Anticipated | Triggered Date | **Impact** | **Mitigation Plan** | **Owner** |
| Ambiguity in the requirement |  | Leads to increase in effort, and increase in effert leads to cost. |  | Deepak |
| Change in requirement |  |  |  |  |
| Incomplete functionality in server |  |  |  |  |

1. Dependencies from Evalo

**1. Documentation and Knowledge Transfer**

**Responsibilities:**

* Create comprehensive documentation for the Flutter version, including architecture, codebase structure, and usage instructions.
* Conduct knowledge transfer sessions for the development team.

**2. Legal and Compliance Team**

**Responsibilities:**

* Ensure compliance with relevant legal and privacy regulations during the porting process.

**3. Stakeholders and Decision Makers**

**Responsibilities:**

* Provide input, feedback, and approval on key decisions throughout the porting process.

**4. User Acceptance Testers**

**Responsibilities:**

* Participate in UAT to validate the functionality and usability of the Flutter version.

**5. External Property Data Providers**

**Responsibilities:**

* Collaborate with the development team to ensure seamless integration with external property data sources.

1. Assumptions
2. Acceptance criteria

* All mutually agreed critical test cases shall pass for each of the platforms.
* Further as described in SoW document
* We will test and document of each functionality of the app.

1. Warranty

NA

1. Work Location, Security & Confidentiality

Work Location - work location is Bangalore, Nortcele office

1. Schedule and Payments
   1. Schedule
   2. Payment Milestone and Schedule

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| --- | --- | --- | --- |
| **Completion of Milestone** | Delivery contents | Invoice Amount in INR | Comments |
| M1 (W1) |  |  |  |
| M1(W2) |  |  |
| M1(W3) |  |  |
| M1(W4) |  |  |
| **Total** | |  |  |

|  |  |  |
| --- | --- | --- |
| **Completion of Milestone** | Invoice Amount in INR | Comments |
| M1 (W1) |  |  |
| M1(W2) |  |  |
| M1(W3) |  |  |
| M1(W4) |  |  |

* 1. Other Terms

Support will be provided until the 1 month from the date of delivery.