**PROJECT PLAN**

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**E-commerce System for Marginalized Communities**

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The purpose of this document is to define the project management plan.

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**Revision History**

|  |  |  |
| --- | --- | --- |
| **Version No & Date.** | **Description** | **Author** |
| Version 0 (1 May 2013) | Initial Version: Theory | Ntsane Kolisang |
| Version 1 (7 May 2013) | Update Project constrains, stakeholder analysis and project charter | Ntsane Kolisang |
| Version 2 (2 September 2013) | Revise Project Scope | Ntsane Kolisang |

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# Project Definition

* 1. Project Title : e-Commerce Mobile App for Reed House Systems
  2. Project Owner : ITS-Africa Solutions
  3. Project Customer : Reed house Systems
  4. Project End-User : Egazini Outreach Project
  5. Scrum Master : Ntsane Kolisang

# Project Need and Importance

* 1. **Reed house Systems Need and Importance** 
     1. This project is needed by Reed House Systems to ensure that they see though their company objective of advancing ICT4D initiatives.
  2. **Egazini Outreach Project Need and Importance**
     1. Egazini Outreach Project will benefit from the marketing and advertising platform that is provided by Reed House Systems through their e-Commerce Middleware, Teleweaver, which will connect to the mobile application.
     2. This project is important because the most marginalised of the people will be able to get financial benefit from effective and efficient use of the application.

# Project Justification

* 1. The project will see through the realisation of the above stated needs and importance.
  2. The mobile application will serve as a platform used by Egazini Outreach Project to connect and upload their product information to Reed House System Teleweaver.

# Project Success Measures

* 1. This project will be a success if the application is error or bugs free.
  2. The application is functioning well when it installed on the mobile devices.
  3. Connect and enables communication for delivery and collection of content to Teleweaver using Wifi Network which will also mean that RESTFul web service client created works perfectly.

1. **Project** **Deliverable** **List**
   1. A working mobile application for android platform that can connect to Teleweaver using Reed House Systems’ Wifi network.
   2. Project documents
   3. System requirements documentation
   4. System design Documentation
   5. Training for end-users.

# Project Inclusion Work Scope

* 1. Develop, install, test and commission the front-end mobile application for the Reed House e-Commerce System. The application will connect to Teleweaver using RESTful (REpresentation State Transfer) web services via Wifi Network.

# Project Exclusion Work Scope

* 1. We are not developing anything on the administrator or TeleWeaver's side.
  2. We are not developing anything on the buyer's side.
  3. We are not handling delivery and payment systems.

# Project Constraints

* 1. System constraints describe how the system is constrained when accomplishing its services.
  2. System constraints are described and explained under the following categories:
     1. **Interface requirements**
        1. Labels and headers need to be intuitive and understandable.
        2. Buttons and their functionality need to be clear.
        3. Must be suitably sized and scaled and hence readable for mobile devices.
        4. Needs to be usable with both a touch screen and non-touch screen mobile device.
        5. Text must be convertible and readable in different languages without impacting on the layout and display of the interface.
     2. **Performance** **requirements**
        1. System needs to be usable and run at a satisfactory level on entry level android mobile devices.
        2. Data sent to Teleweaver interface should take no longer than 3 minutes.
        3. It should take no longer than 3 minutes to receive any sales notifications from Teleweaver when connected to the network.
        4. Confirmation messages should be displayed within 0.5 seconds of completing an action.
        5. User should receive system feedback within 0.5 seconds.
     3. **Security** **requirements**
        1. User login information must not be stored on the mobile device apart from the username which can be ‘remembered’.
        2. In terms of data security and integrity, appropriate input must be entered, example, numbers for pricing of art work.
        3. There is a limit of 3 incorrect inputs for user login, after which, they must wait 1 hour before being able to log in again.
        4. If a user forgets their login details, they will be directed to the Teleweaver main page to retrieve their login details.
        5. The user will have no access to the database itself as the uses of the actual database on the mobile device will be automated.
     4. **Operational** **requirements**
        1. Usable only on devices with android OS software installed.
        2. Devices must be Java enabled.
        3. The communication between the system and Teleweaver requires the user to have either WiFi Network.
        4. The mobile device must have a functioning camera to take pictures.
        5. The user must have permission to store data in a folder on the device, for example storing pictures in the gallery.
     5. **Political** **and** **legal** **requirements**
        1. The product must comply with the policy on free and open software use for Android OS devices.
        2. For installation purposes, must request for the user’s consent to utilize the camera for the application as well as to store and manipulate data on the mobile device.
        3. The mobile device must be ICASA approved and fully compliant to SABS for Telecommunication devices.
     6. **Other** **key** **technical** **Requirements**
        1. Product must comply with all industry standards in terms of coding language.
        2. The product shall not be limited to the use of area specific jargon and terminology.

# Project Stakeholders and Roles

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Stakeholder**  **Name** | **Organization** | **Role on project** | **Unique Facts about the stakeholder** | **Level of interest** | **Level of influence** | **Suggestions on managing relationships** |
| Prof. A.Terzoli | Reed House Systems | Customer and  Technical Expert | He is key to the workings of Reed House Systems and is well versed on how the system should work. | High | High | Keep him informed about the development in the project.  Be polite and respectful at all times.  Keep in mind that he is the customer and knows very well what he wants.  Be punctual for meetings and do not waste time.  Be professional and cordial. |
| Mr. O. Nytathi | Reed House Systems | Customer and  Technical Expert | He is considered an expert on JSON and Restful Web services. | High | High | Be polite and respectful at all times.  Keep in mind that he is the customer and knows very well what he wants.  Be punctual for meetings and do not waste time.  Be professional and cordial. |
| Mr. Vukile  Teyise | Egazini Outreach Project | End User | He is core to the functioning of Egazini and is considered the key advisor on all things commercial. | High | High | Keep him informed about the development in the project.  Be polite and respectful at all times.  Keep in mind that he is the end user and knows very well what he wants.  Be punctual for meetings and do not waste time.  Be professional and cordial. |
| Mrs. V. Booi | Egazini Outreach Project | End User | She works quite closely with Vukile. | High | High | Keep her informed about the development in the project.  Be polite and respectful at all times.  Keep in mind that she is the end user and knows very well what she wants.  Be punctual for meetings and do not waste time.  Be professional and cordial. |
| Mrs. N. Tana | Egazini Outreach Project | End User | She is one of the lead artists at Egazini. | High | High | Keep her informed about the development in the project.  Be polite and respectful at all times.  Keep in mind that she is the end user and knows very well what he wants.  Be punctual for meetings and do not waste time.  Be professional and cordial. |
| Mr. E. De LaRey | Department of Information Systems | Supervisor | He is the coordinator for Honour System Development Program | High | High | Be polite and respectful at all times.  Be punctual for meetings and do not waste time.  Be professional and cordial. |
| Mrs. L. Palmer | Department of Information Systems | Supervisor and Adjudicator | She is IS-Honours Course Manager and the marker for Analysis. | High | High | Be polite and respectful at all times.  Be punctual for meetings and do not waste time.  Be professional and cordial. |
| Dr. Carolin Khene | Department of Information Systems | Adjudicator | She is the marker of Design. | High | High | Be polite and respectful at all times.  Be punctual for meetings and do not waste time.  Be professional and cordial. |

# Project Top Risk

* 1. See the risk management plan to see all the aspects of the project risk that have been assessed.

# Project Top Opportunity

* 1. Once the project becomes a success Reed House Systems will be able to offer the same application to an infinite number of users to be on their platform.

# Project Major Assumptions

* 1. Teleweaver will be able to support all the functionality that is required for the mobile application.
  2. Wifi Network connection will be used to connect to Teleweaver.

# Project Critical Interdependences

* 1. The Testing of some functionalities of the mobile application are highly dependent on Teleweaver being functional and offering all those services.

# Project Charter

**Project Title** : e-Commerce Mobile App for Reed House Systems

**Project Start Date :** 15 April 2013 **Projected Finish Date :** 25 October 2013

**Budget Information : R400.00**

**Scrum Master :** Ntsane Kolisang

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* 1. **Project Objectives** 
     1. To project manage, develop, install, test and commission an android platform mobile software application for Reed House Systems to be used by Egazini Outreach Project.
     2. Ensure that the backend Application is connected to Reed house systems’ Teleweaver Server.
     3. Write training manuals and train the end-users of the mobile application and ensure familiarity with the product.
     4. Write installation and user manuals that will be used to facilitate the installation of the mobile application and also aid in the usage of the application.
  2. **Approach**
     1. We will use the internal staff (i.e. ITS-Africa Solutions personnel) to perform analysis, design, development, test and commissioning phases of the project.
     2. We will interface and consult Reed house Systems and Rhodes Computer Science department as far as possible for information that pertains to interfacing to Teleweaver.
     3. We will solicit guidance from Rhodes University’s Department of Information Systems’ Honours System Development Supervisor to ensure consistency with the requirement and compliance to the specified scope.

**Table 1:** ITS Africa Solutions Roles and Responsibilities

|  |  |  |  |
| --- | --- | --- | --- |
| **Role** | **Name** | **Organization/Position** | **Contact Information** |
| 1st Scrum Master  2nd Analyst | Ntsane Kolisang | **ITS-Africa Solutions**  **Scrum Master** | +27 82 792 5252  [g97k5191@campus.ru.ac.za](mailto:G97K5191@campus.ru.ac.za) |
| 1st Analyst  2nd Designer | Tsungai Makoni | **ITS-Africa Solutions**  **Analyst** | **+27 76 812 3012**  [g10m3716@campus.ru.ac.za](mailto:g10m3716@campus.ru.ac.za) |
| 1st Designer  2nd Analyst | Abram Rankapole | **ITS-Africa Solutions**  **Designer** | +27 72 614 4590  [g09r0881@campus.ru.ac.za](mailto:g09r0881@campus.ru.ac.za) |
| 1st Designer  2nd Analyst | Giovanna Contu | **ITS-Africa Solutions**  **Designer** | **+27 83 644 1008**  [g10c1399@campus.ru.ac.za](mailto:g10c1399@campus.ru.ac.za) |
| 1st Developer  2nd Designer | Ronald Chinku | **ITS-Africa Solutions**  **Developer** | +27 71 227 3262  [g10c4865@campus.ru.ac.za](mailto:g10c4865@campus.ru.ac.za) |
| 1st Developer  2nd Analysis | Dusan Gnjatic | **ITS-Africa Solutions**  **Developer** | +27 72 227 4583 [g10g0351@campus.ru.ac.za](mailto:g10g0351@campus.ru.ac.za) |

**Project Charter Sign-off :**

* 1. **Comments**
     1. It is highly important that the project is delivered on time and in full compliance with the specified scope as failure to do so will adversely affect our academic progress and tarnish the department’s reputation with the users.
     2. It is also important to recognize the fact that we are developing a system that will be readily usable and we’ll endeavor to produce a product and service that are of high quality in a professional manner.