E-choupal requirement specification

Use case requirements

Version 1.0

October 25, 2010

Project team :

1. Vikash Kumar, Developer & Requirement analysist
2. V. kamalkanth, Team Lead
3. Shailesh tiwari

Document author:

1. Vikash Kumar, team lead, project manager

Customer representative:

1. Santosh K. Singh
2. Uttam Kumar
3. Anamika

I. Introduction

E-choupal the unique web based initiative Agri Business Division, offer the farmers of India all the information, products and services they need to enhance farm productivity improve farm-gate price realization and cut transaction costs. Farmers can access latest local and global information on weather, scientific farming practices as well as market prices at the village itself through this web portal – in regional languages. Choupal also facilitates supply of high quality farm inputs as well as purchase of commodities at their doorstep .This document gives in the detail view of the use cases of the e-choupal.

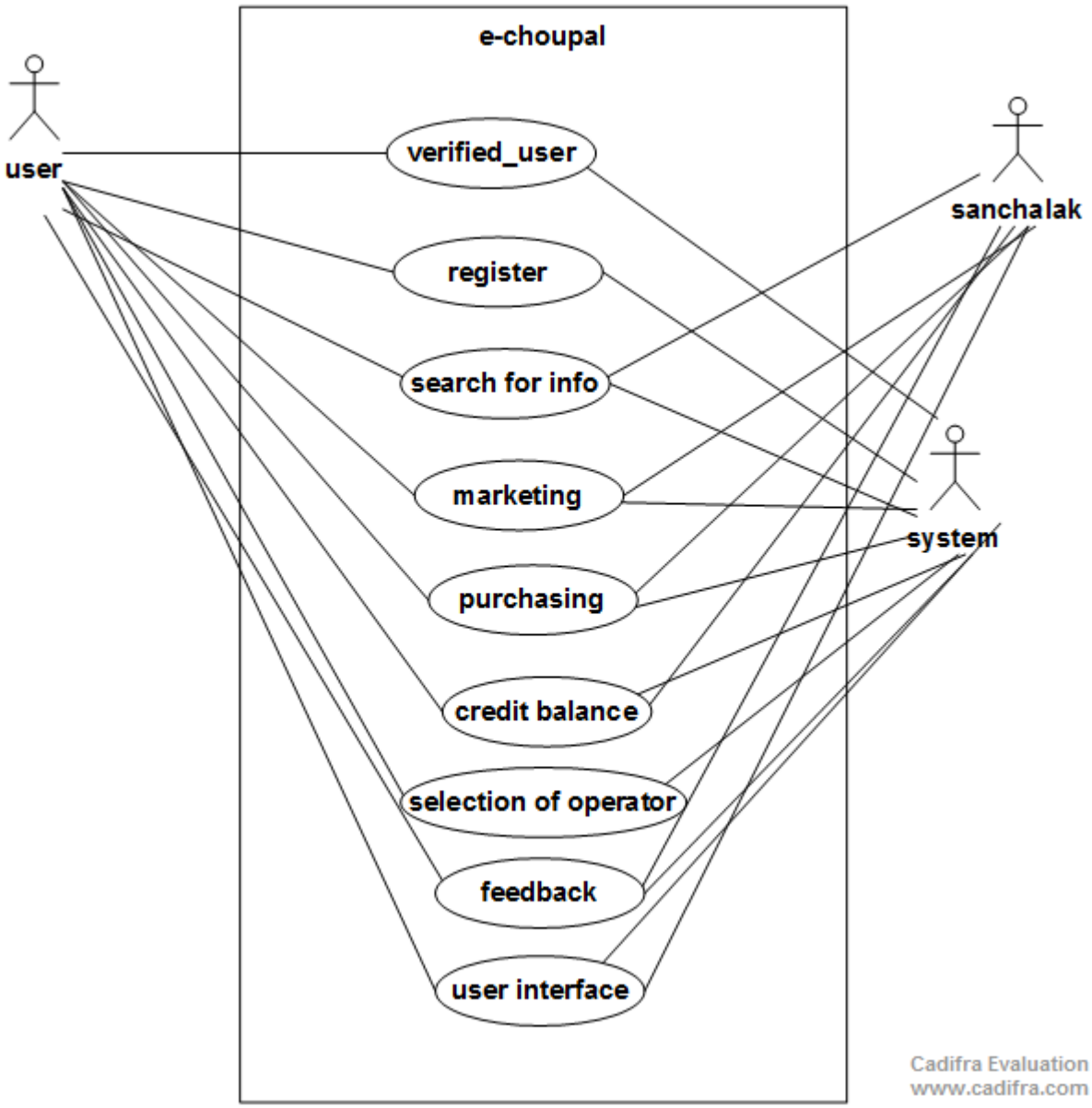

Fig: E-choupal use case diagram

II. Use Cases:

UC1: Authentiction

UC2: registration

UC3: Purchase goods

UC4: Sell goods

UC5: Bank account is deficit

UC6: Cancel transaction

UC7:Fill feedback

UC8: View feedback

UC9: Select Opeartor

UC10: User not registered

UC11: Search_info

UC1 Flow of events for the *Authentication* Use Case

1.1 Precondition: None

1.2 Main flow: Once the user reaches the home page of the e-choupal's web portal, the user will be prompted to authenticate themselves. The user will enter the username and password [E1][E2]. After validation they will be directed to different pages [S1].

1.3 Sub flow: The user, vendor or administrator will be taken to the user, vendor and administrator pages respectively.

1.4 Alternate flow: [E1] If the authentication fails due obscenity in username & password but the user is a registered user, then the same will be prompted and asked to re-enter the correct username and/or password. [E2] In case the user or vendor is not registered with the system, they'll be directed to the respective registration pages [UC2].

1.5 Post condition: The user has successfully logged in.

UC2 Flow of events for the Registration Use Case 2.1

2.1 Preconditions:

The authentication has failed as the user is not registered with the system or a new user wants to sign up.

2.2 Main flow: The user or vendor is required to fill in the registration form. The user has to fill in various fields like username [E1], passwords, confirm passwords etc. Similarly, the vendors are required to confirm their identity and provide details of the services they are going to provide.

2.3 Sub flows: None

2.4 Alternate Flow: [E1] If the username entered has been already taken by another user, the current user shall be prompted of the same and asked to enter another username till it's a unique username.

2.5 Post condition: The user or the vendor is now registered with the system.

UC3 Flow of events for the Purchase goods Use Case

3.1 Preconditions: The user has been validated by the system and wants to order for goods from local or global market.

3.2 Main flow: The user will select the type of market and the quantity [E1]. The user will select the name of the good from the pull-down menu and enter the account number from which the cost + service tax will be debited [E2]. [E3]

3.3 Sub flows: None

3.4 Alternate flow: [E1] If the quantity of goods is not available currently in the chosen type of market, the user will be prompted of the same and asked to place the order sometime later or select a different market. [E2] In case the account number provided by the user does not have the sufficient balance, the user will be notified and the transaction will be cancelled [UC6].

3.5 Post condition: The transaction is completed.

UC4 Flow of events for the Sell goods Use Case

4.1 Preconditions: The user has been validated by the system and wants to sell goods to local or global market.
4.2 Main flows: The user will select the type of market and quantity from the pull down menu and enter his own account number for the amount to be deposited to his/her credit.

UC5 Flow of events for the User Account is Deficit Use Case

5.1 Preconditions: The user has been validated by the system. The user wanted to avail a service.
5.2 Main flow: An appropriate error message will be generated and reported back to the user. The current transaction will be cancelled.
5.3 Sub flows: None
5.4 Alternate flow: None
5.5 Post condition: None

UC6 Flow of events for the Cancel Transaction Use Case

6.1 Preconditions: The user has been validated and "Cancel Transaction" button was pressed.
6.2 Main flow: All proceeding vis-à-vis current transaction is deleted from the log.
6.3 Sub flows: None
6.4 Alternate flow: None
6.5 Post condition: The user is taken back to his home page.

UC7 Flow of events for the Fill Feedback Use Case

7.1 Preconditions: The user has been validated by the system.
7.2 Main flow: The user fills in the feedback form and clicks the "send" button.
7.3 Sub flows: The report is sent to the specified vendor or to the administrator.
7.4 Alternate flow: None

7.5 Post condition: The feedback is sent.

UC8 Flow of events for View Feedbacks Use Case

8.1 Preconditions:

1. The *sanchalak* has been authenticated.
2. The *sanchalak* wants to view the feedbacks from the user.

8.2 Main flow: The vendor views the feedback [E1].

8.3 Sub flows: None

8.4 Alternate flow: [E1] In case there are no feed backs to be viewed, the vendor is notified about it.

8.5 Post condition: none

III. Non-functional requirements

NR 1. 24 X 7 Availability: The service will be operational throughout the day on all week days. The exception being that the railway reservation facility can't be availed before 8:00 am and after 10:00pm -vide the Indian Railways norms. The above clause is subjected to non-occurrence of any unpredicted catastrophe. Origin: Interview with Ishan Tiwari on May 10, 2009 (Interview #I03SC01). Priority: 1 Implementation Completed Date: July 19, 2009

NR 2. Performance: The system shall wait for the user input and execute only the necessary functions, as per the given user input. All function shall be completed quickly.

NR 2.1 User responses: The system shall respond to any user input within 0.01 seconds subject to bandwidth, speed of the user connection and congestion. Origin: Interview with Ishan Tiwari on May 11, 2009 (Interview #I03SC01). Priority: 1 Implementation Completed Date: August 9, 2009

NR 3. Usability

NR 3.1 Customer Interface: The system shall allow a customer to interface with it through mouse clicks and drop down menus and keyboard strokes on the text fields. The amount of keyboard input shall be minimized to entering the feedback by the customers, only. The software aids the customer by allowing to switch over to their regional language making it more user-friendly. Origin: Interview with Ishan Tiwari on May 31, 2009 (Interview #I03SC01). Priority: 1 Implementation Completed Date: July 6, 2009

NR 3.2 User errors: The system will be capable enough to catch the obscenity in feedback and return with the proper action to be initiated by the user. Origin: Interview with Ishan Tiwari on May 31, 2009 (Interview #I03SC01). Priority: 1 Implementation Completed Date: June 1, 20039

IV. Constraints

All code development shall be done with the Java programming language or C#. All testing shall be done using JUnit, FIT or JIT compiler.

V. Development and Target Platforms

1. Windows XP, Vista and 7 Operating Systems
2. Intel Pentium IV processors and higher
3. Eclipse IDE, Microsoft Visual Studio 2008

VI. Project Glossary

VIII. Document revision history

Version: 1.0
Name(s): Abhijeet Singh and Abhinav Singh
Date: November 19, 2010.
Description of Changes: Creation of the Original Use Cases Documentation.