Functional Requirements Specification

Basic Coin Dispence Frontend

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1. Introduction

The goal of the Coin Dispense System is to calculate a cash amount captured for the total purchase price of a transaction and the system returns a displayed breakdown value of notes and coins to be dispensed.

e.g.: Paying for clothes that was bought at a store.

2. Scope

The scope of the Coin Dispense projects is as follows:

In Scope	Out of Scope
a. Display amount due. b. Capture cash amount greater than purchase price and display dispensing denomination amounts.	a. UI b. Login c. Server interaction

3. Requirements

3.1. Use case summary

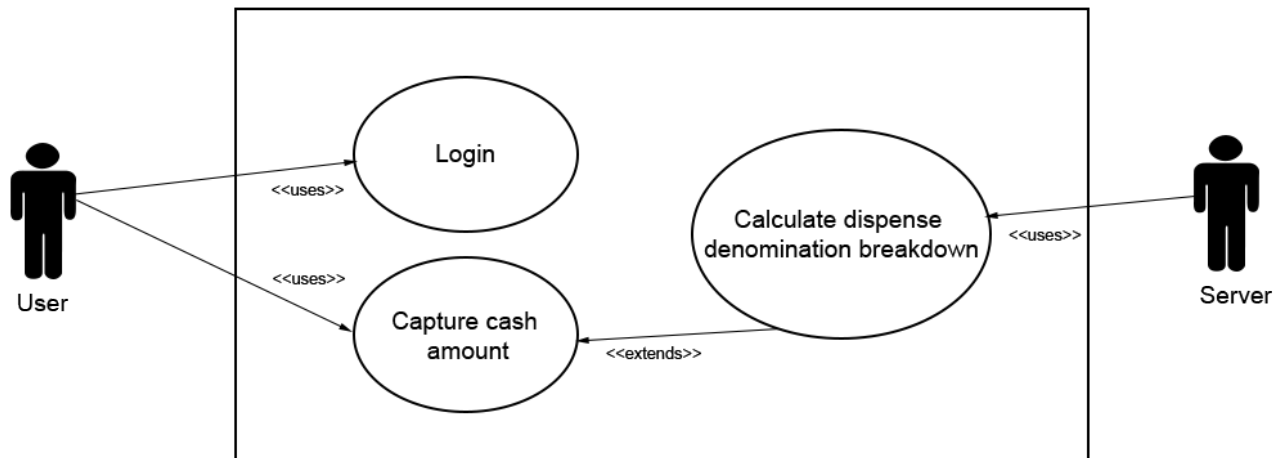The use case summary below displays the high level requirements.

Figure 1 - Use case summary for Cash Dispenser

3.2. Use cases

Use case 1 - Capture amount

Use case	Capture note Amount
Goal in Context	To capture note denomination amount
Level	User
Primary Actor	Connect User
Precondition	None
Success end condition	Successful capture of valid rand cash denominated amount and display the **breakdown** in denomination of the cash to be dispensed converted to the selected currency
Basic Flow of Events	1. User captures a rand note amount and selects submit button. 2. Cash Dispense system verifies input amount and requests a denomination value breakdown. 3. The Cash Dispense displays the denominating rand values.
Extension	2.1 The rand note value is incorrect. 2.1.1 The Cash Dispense System displays rand note error.
Notes	1. Valid rand denominations are R200, R100, R50, R20 and R10. 2. Valid coin denominations are R5, R2, R1, 50c, 20c 3. Valid alphanumeric characters to be used [A-Z]
Error Message	The rand note value is incorrect
UI Impact	Capture denomination amount screen Denomination breakdown result screen

3.3. Screens

Amount due: **R25.50** Capture rand note denomination ┌─────────────────┐ │ R. │ └─────────────────┘ ┌──────────┐ │ Submit │ └──────────┘	Breakdown: 1 x R20 2 x R2 1 x 50c ┌──────────┐ │ Reset │ └──────────┘

Figure 2 - Screen examples of Cash Dispense System

Version Control

Version	Date	Author	Summary
0.1	02 February 2017	Theuno de Bruin	Initial Draft

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