ShopAdmin Requirements Specification

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Product Owner: Iuliia Guk, Kateryna Pryshchepa
Scrum Master: Thomas Röhl
Development Team: Thomas Röhl, Tetiana Lavrynovych, Sascha Zepf, Iuliia Guk, Kateryna Pryshchepa, Roger Nabinger
Stakeholder: Thomas Röhl, Tetiana Lavrynovych, Sascha Zepf, Iuliia Guk, Kateryna Pryshchepa, Roger Nabinger

Introduction

The goal of this project is to create an Android Application to control expenses based on Tesseract library. This document describes the requirements for specifying required usage of ShopAdmin application.

Use Cases

UC-0 Create Account
UC-1 Login
UC-2 Scan Receipt
UC-3 Edit Scan Results
UC-4 Show Timeline Report
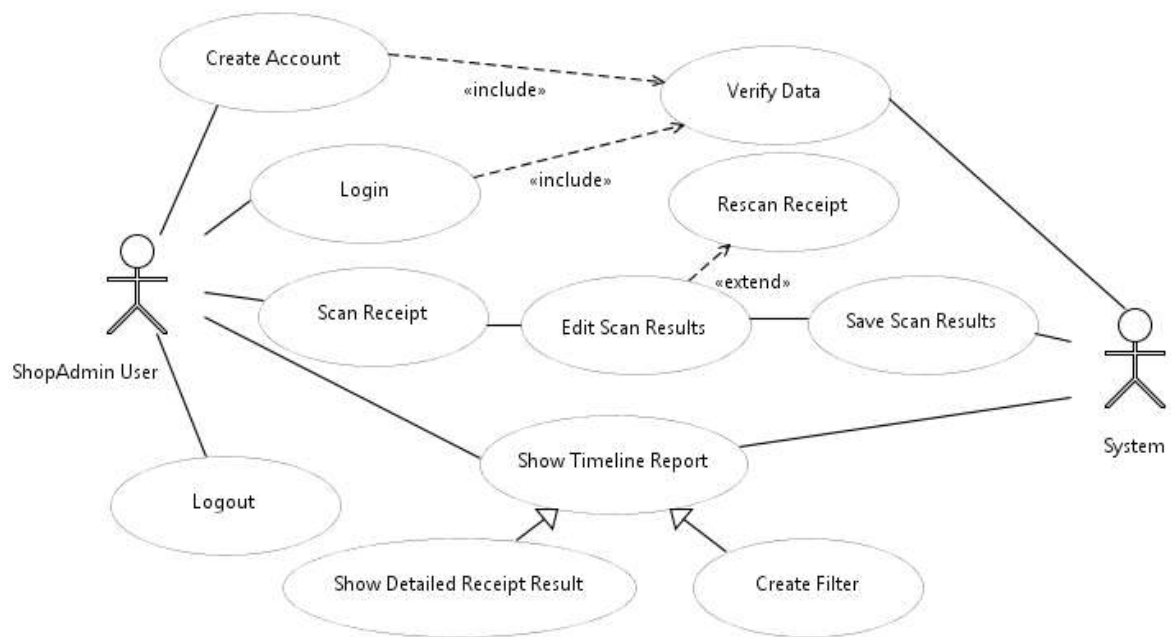UC-5 Logout
UC-6 Verify Data
UC-7 Rescan Receipt
UC-8 Show Detailed Receipt Results
UC-9 Create Filter
UC-10 Rescan Receipt
UC-11 Save Scan Results

UseCase Diagram

Number	0	
Name	**Create Account**	
Summary	User creates a new account with his desired registering data for later usage	
Priority	2	
Preconditions	User has installed the app on his mobile	
Postconditions	Account is created	
Primary Actor(s)	User	
Secondary Actor(s)	System	
Trigger	App is started	
Main Scenario	Step	Action
	1	System shows loginscreen
	2	Create new account is choosen by the user
	3	User enters his desired username
	4	Availability of the username is checked
	5	In case of username already present on database an alternate username has to be entered
	6	User has to enter E-Mail
	7	User has to enter his desired password
	8	User has to confirm the password
	9	User has to complete registration by pressing the corresponding button
	10	System stores account information in Database
	11	In case of error, user has to try again
	12	System shows main view
Extensions	Steps	Branching Action
	10a	System shows feedback of success
	6a	E-Mail is used for Password reset, E-Mail is not verified
	8a	No rules
Open Issues	Steps	Branching Action
	1	Will the user be able to use the app locally without registration
	2	Possibility to change account data (i.e. E-Mail) is needed?

Number	1	
Name	**Login**	
Summary	User logs in with his/her registration data	
Priority	3	
Preconditions	User has to be registert in ShopAdmin with an user account	
Postcondtions	User is able to log in and see the main view	
Primary Actor(s)	User	
Secondary Actor(s)	ShopAdmin system	
Trigger	Correct username and password and pressing the loginbutton	
Main Scenario	Step	Action
	1	System shows loginscreen
	2	User enters username
	3	User enters password
	4	User clicks loginbutton
	5	System compares userinput with registration data
	6	If userinput is wrong, System asks for repeat userinput
	7	System shows main view
Extensions	Steps	Branching Action
	5a	System shows feedback of success
Open Issues	Steps	Branching Action
	1	Should the System ask, if the User want to register
	2	Should the System send Userinformation per mail

Number	2	
Name	**Scan Receipt**	
Summary	The User can scan a receipt and get results of the scanning process	
Priority	5	
Preconditions	User has to be logged into ShopAdmin	
Postcondtions	The scan results can be stored in the database	
Primary Actor(s)	User	
Secondary Actor(s)	Mobile phone camera	
Trigger	User clicked on scan button	
Main Scenario	Step	Action
	1	System shows main view with scan button
	2	User presses the scan button
	3	System starts mobile phone camera
	4	User takes a picture with mobile phone camera
	5	System shows edit view
Extensions	Steps	Branching Action
	5a	User can start rescan → Step 3
	5b	System shows main view
Open Issues	Steps	Branching Action
	1	Should System ask to go back to main view?
	2	Should System help taking a picture?

Number	3	
Name	**Edit Scan Results**	
Summary	The retrieved data from the receipt is displayed and can be adjusted by the user	
Priority	4	
Preconditions	An image is scanned	
Postcondtions	User is satisfied with the data	
Primary Actor(s)	User	
Secondary Actor(s)	System	
Trigger	Scan results from image retrieved	
Main Scenario	Step	Action
	1	Display data
	2	Data can be adjusted in a convenient way.
	3	User confirms data by pressing Save
	4	Data is stored
Extensions	Steps	Branching Action
	2a	System shows main view
	3a	User inputs are treated as always valid.
Open Issues	Steps	Branching Action
	1	Is data first stored locally?
	2	UseCase for retrieval of group data?
	3	UseCase for data alignment necessary?

Number	4	
Name	**Show Timeline Report**	
Summary	A User can see all results in general or from a specific timeline	
Priority	5	
Preconditions	A User must logged to ShopAdmin	
Postcondtions	-	
Primary Actor(s)	User	
Secondary Actor(s)	ShopAdmin Data	
Trigger	click on Table on main view	
Main Scenario	Step	Action
	1	show table of results with all shops names, account and total
	2	show filters: timefilter, categoryfilter, shopfilter
	3	chose filter and show filtered result
Extensions	Steps	Branching Action
	1	buttonclick back to main view
Open Issues	-	