ShopAdmin

Control your expenses with receipt scanner

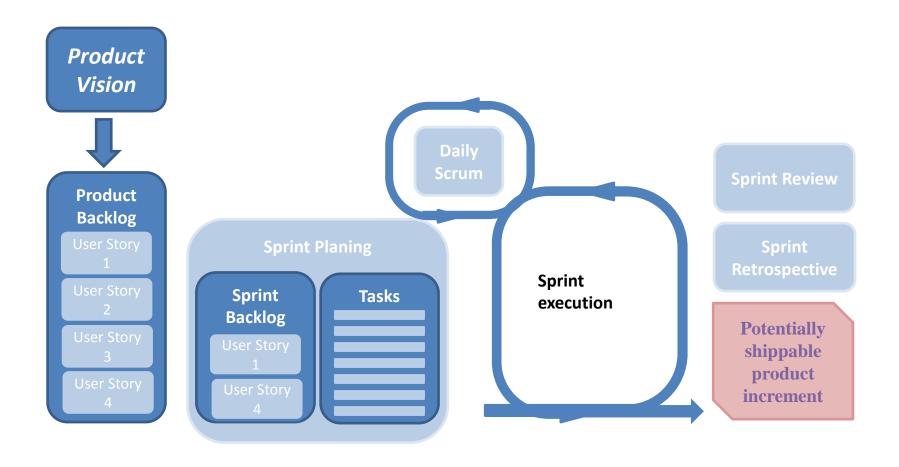




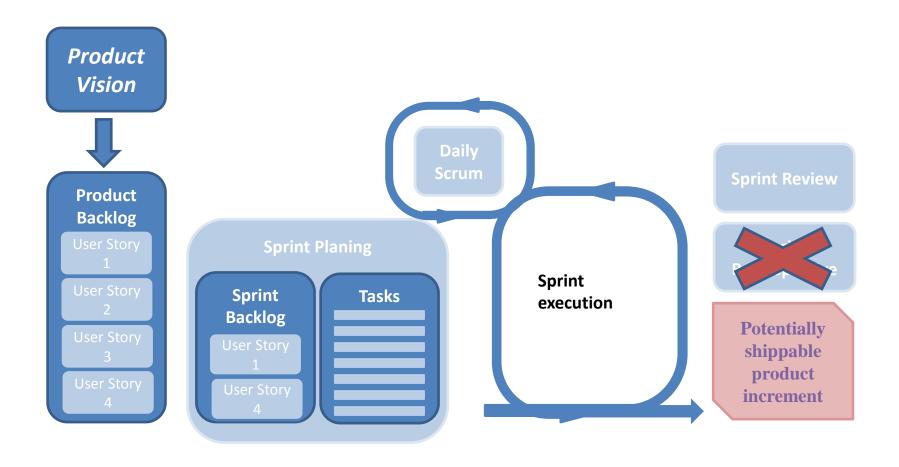
LIVE DEMO	
APPROACH	
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DETAILS	
Congrugation	
CONCLUSION	

LIVE DEMO		
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DETAILS		
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CONCLUSION		

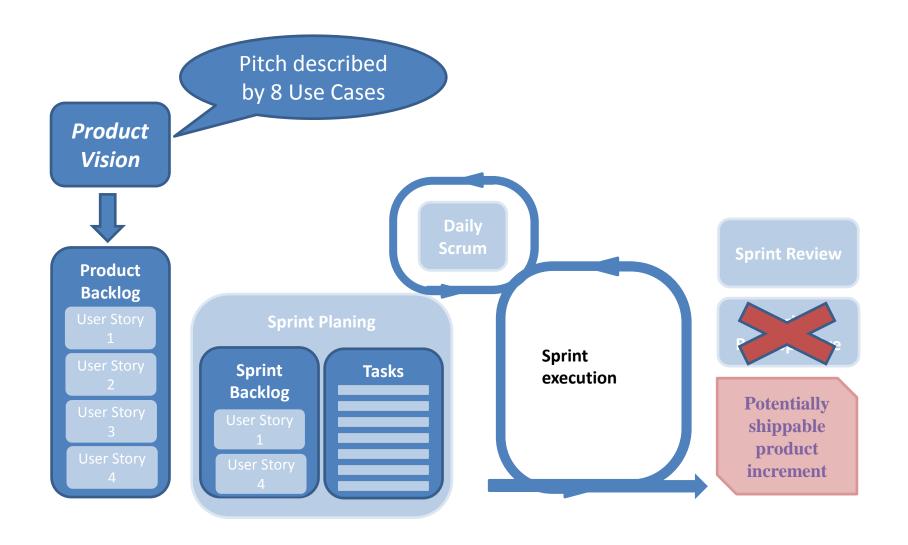
For the realization of ShopAdmin it was decided to use SCRUM

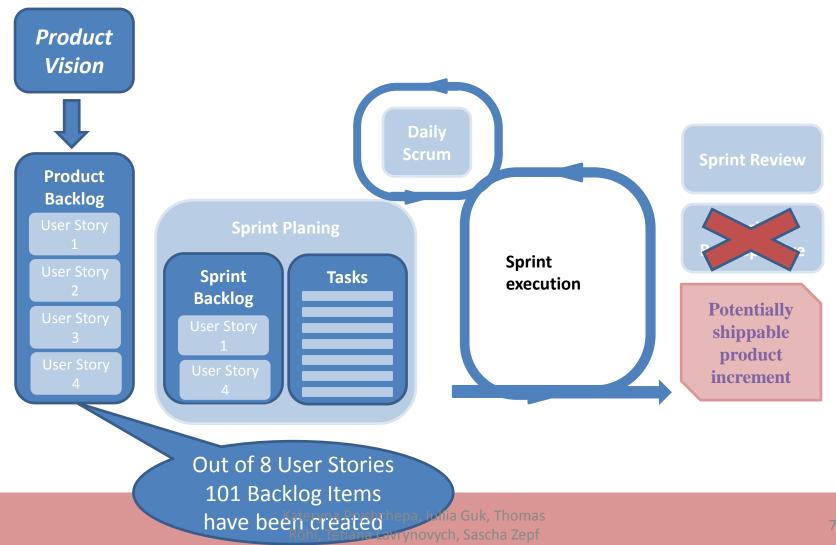


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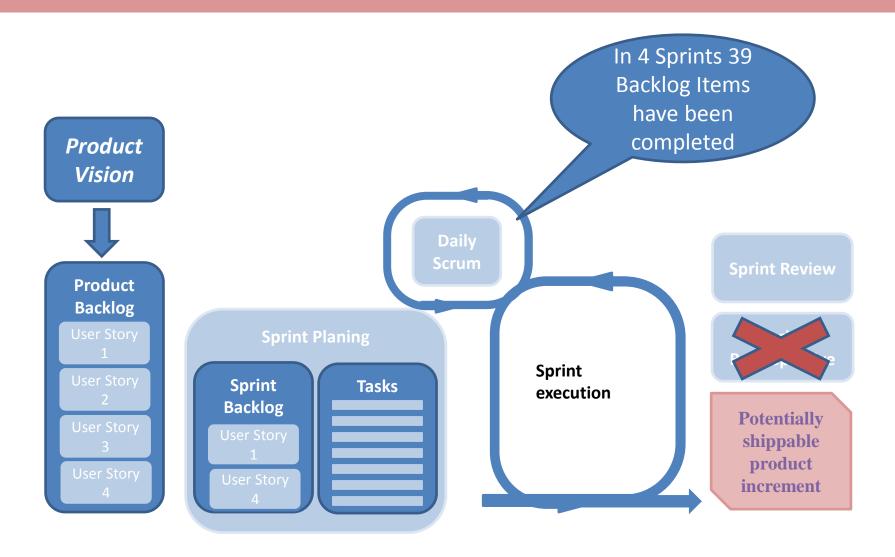


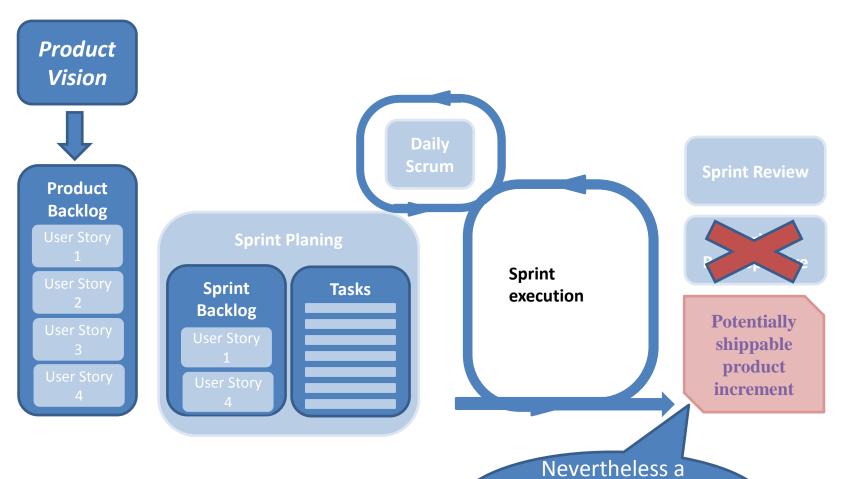
SCRUM PROCESS





SCRUM PROCESS

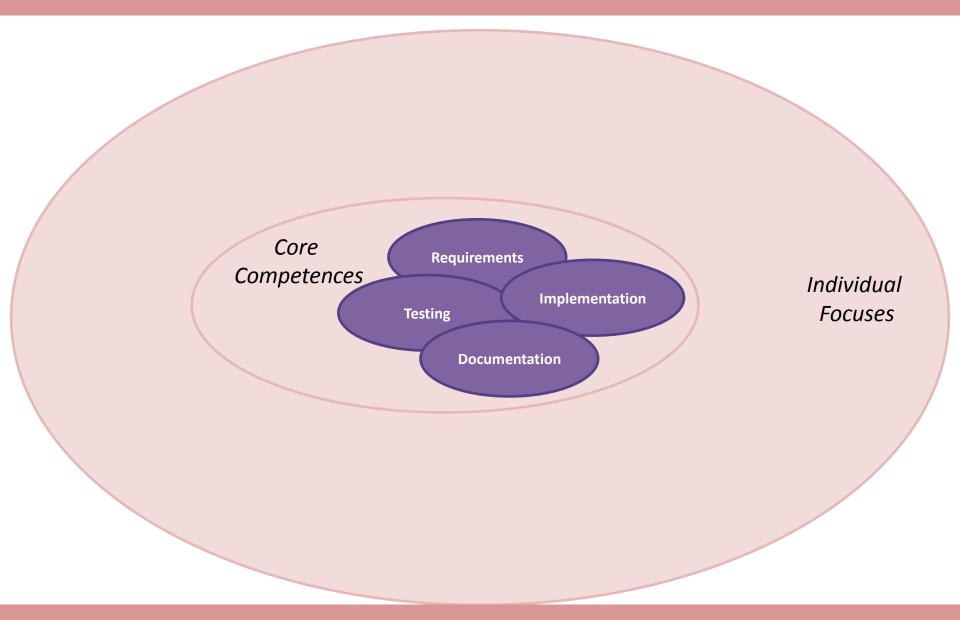




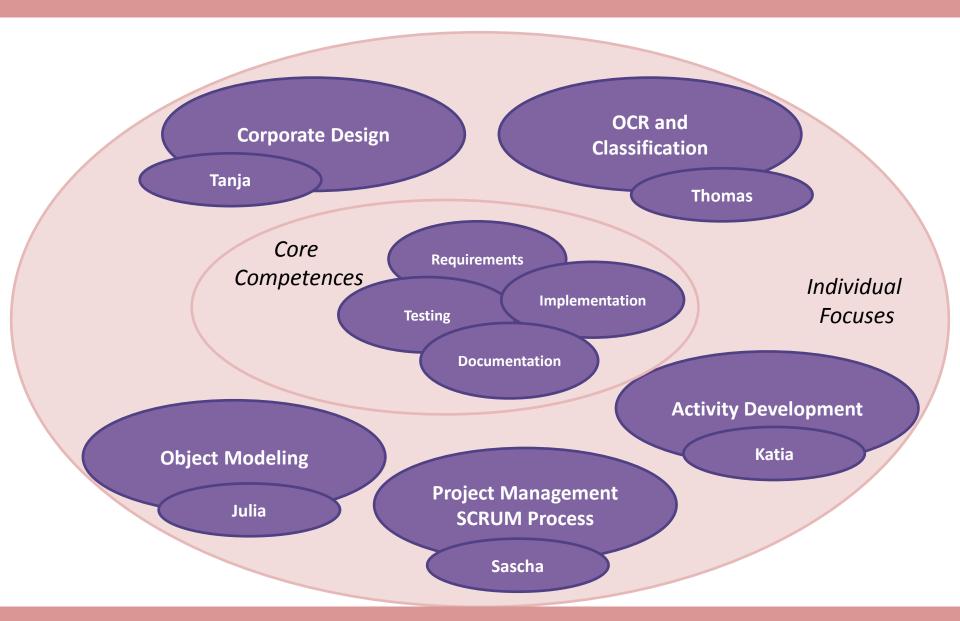
Kateryna Pryshchepa, Iuliia Guk, Thoni Röhl, Tetiana Lavrynovych, Sastia Zep

highly sophisticated
product has been
created

RESPONSIBILITIES



RESPONSIBILITIES



LIVE DEM	O
APPROACH	
DETAILS	
	TECHNICAL DESIGN
	Android Details
	RECEIPT EXTRACTION
Conclusion	ON

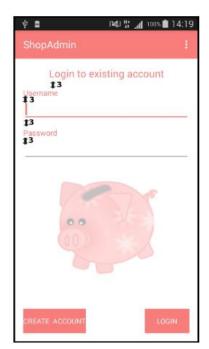
LIVE DEM	0
APPROACH	
DETAILS	
	TECHNICAL DESIGN
	ANDROID DETAILS
	RECEIPT EXTRACTION
Conclusion	ON

CORPORATE DESIGN

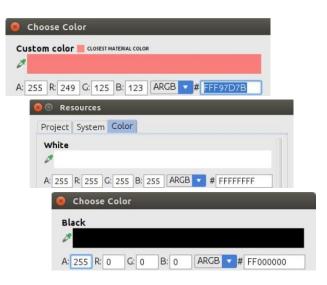
- Colors
- Logo: piggybank (background in the app)
- Pictures for Menu Help







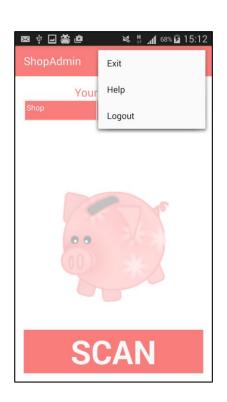




ACTION BAR WITH OVERFLOW MENU

- Functionality:
 - Exit
 - Help

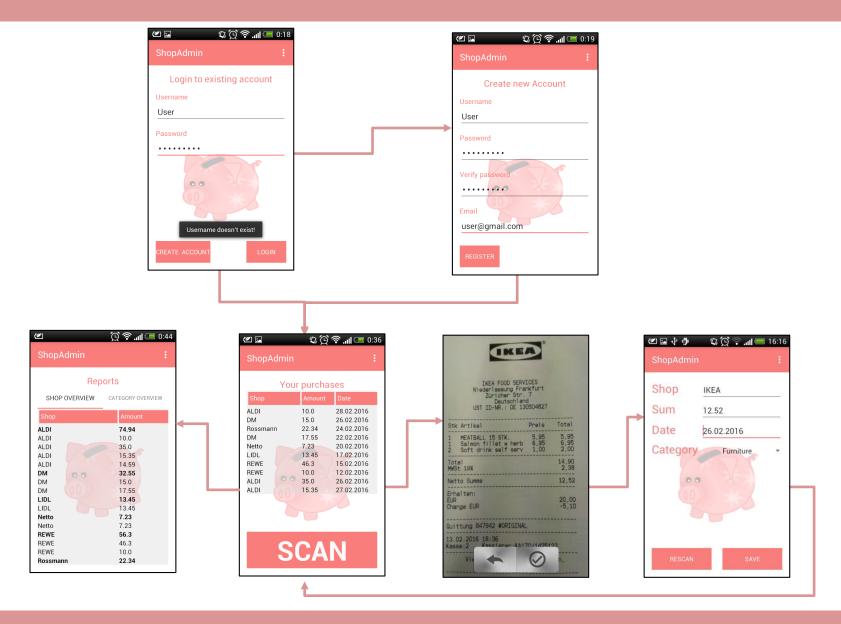






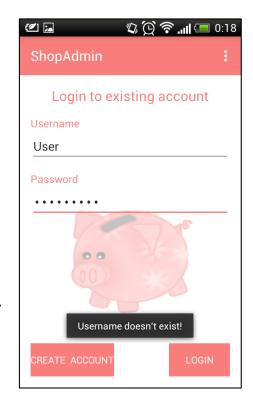


SCHEME OF SCREENS



ACTIVITY DEVELOPMENT

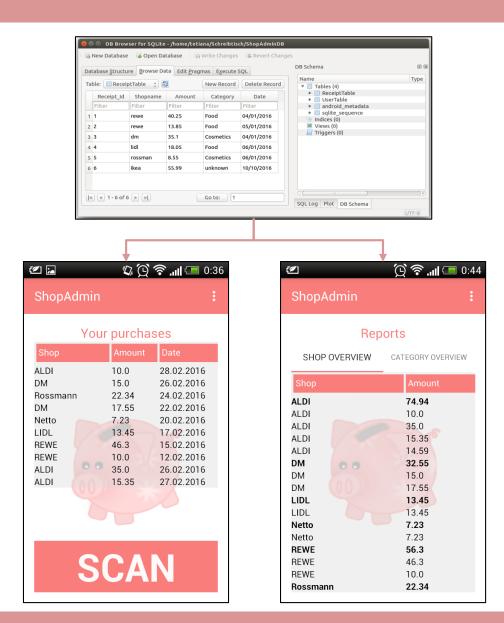
- Creation of Register and Login View
- Functionality in Register and Login view:
 - verifications
 - user name, password, email, complete input
 - visualize user feedback
 - save user data in database
 - hide and show fields in Register view
 - screen flow to Main view





ACTIVITY DEVELOPMENT

- Functionality in Main view
 - get 20 latest receipts from database
- Functionality in Report view
 - get all receipts grouped by name
 - get all receipts grouped by category
 - expand receipts grouped by selected shop name
 - expand all receipts grouped by selected category



User manual in 7 Steps:

- Step 1 Registration
- Step 2 Login
- Step 3 Main view
- Step 4 Scan receipt
- Step 5 Check results
- Step 6 Main view with summary
- Step 7 Reports view

User manual "ShopAdmin"



Software User Manual version 0.1.0, 26. February 2016

LIVE DEMO	
APPROACH	
DETAILS	
	TECHNICAL DESIGN
	Android Details
	RECEIPT EXTRACTION
Conclusion	ON

- Use camera orientation to rotate picture
- Resize image to 2000 x 1200 pixel
- Colored image to black and white
- Tesseract train language deu_frak

- Pre analysis
- Filter insignificant symbols
- Combine single letters
- Levenstein-algorithm
- Post result adaption

- Orientation misleading does not represent picture orientation
- Tesseract can not detect bold or large fonts
- Shop name classification highly depends on name length
- Receipt sum detection is very depending on OCR results

TESTS & STATISTICS: HOW TO MAKE THE PHOTO

good lighting		
flashlight	without flashlight	
90%	85%	

bad lighting		
flashlight	without flashlight	
85 %	5 %	

text style		
normal	bold	
90%	1%	

folded receipt		
no	yes	
90%	30 %	

LIVE DEMO	
Approach	
DETAILS	
CONCLUSION	

FORECAST TO MARKET

- Some Key-functionalities couldn't be finished during the semester. Major Topics are:
 - Session handling
 - Group functionalities
 - Online Database
 - Advanced filter possibilities for Reports
 - Advanced picture processing



ShopAdmin

Control expenses app with receipt scanner

Vision

Whom is it for?

students or young family.

Functionality:

- Manually enter your outgoing transactions
- Scanners that auto-extract receipt information such as shop names, data and time, amount

What problems does it solve?

Save time for counting expenses.

Challenges:

- Using Android for the first time
- Implementing Tesseract Library
 OCR engine and Leptonica Image
 Processing Library