ShopAdmin

Control your expenses with receipt scanner





PITCH SLIDES

SHOPADMIN GOING AGILE

SCRUM AND SHOPADMIN

GENESIS OF SHOPADMIN



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

<u>What problems does it solve?</u>

Save time for counting expenses.

What alternatives are available?

Cashbook Expense Tracker

Expense Manager

Expensify

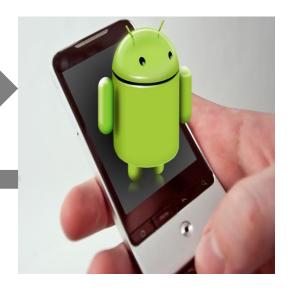


Architecture



Retrieve Data

Store Data



Model

Store required info: shop name, date and time, amount.

Controller

Number & text recognition OCR (optical character recognition)

View

- •Display receipt information
- •Sort and categorize expenses
- •Summarize expenses

Challenge

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

Leptonica Image Processing Library

Example:

Receipt	Amount
ALDI	19.86
PENNY	15.31
REWE	25.35
Total:	60.52



PITCH SLIDES

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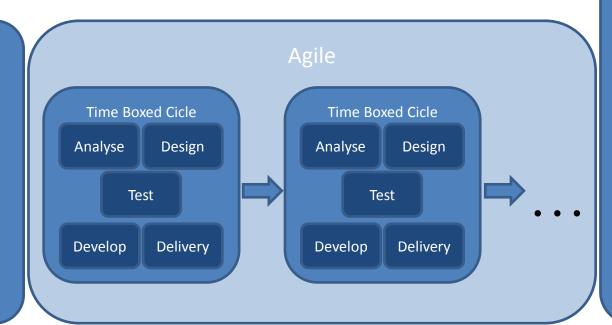
SCRUM AND SHOPADMIN

GENESIS OF SHOPADMIN

- •In general the development of ShopAdmin will take place in an agile way
- •Mainly differentiation between being agile and a classical approach
 - time boxed approach
- •But furthermore agile has its merits and principles

Merits

- Commitment
- Focus
- Openness
- Respect
- Courage
- Simplicity
- Communicati
 on
- Feedback



Principles

- 1. Satisfy the customer
- Welcome changes
- Frequent deliveries
- 4. Cross-functional
- 5. Support and trust
- 6. Direct communication
- 7. Working software
- 8. Sustainable speed
- 9. Ambition for technical excellence
- 10. Self organization
- 11. Review and adapt

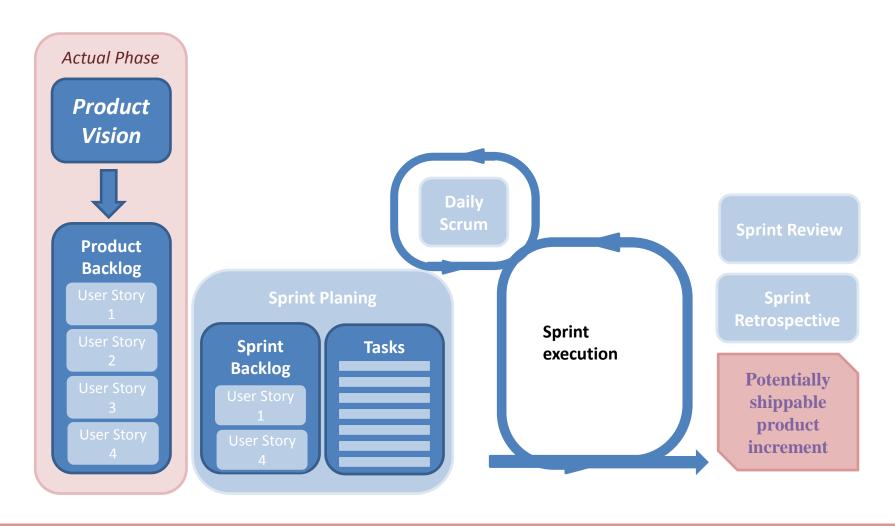
PITCH SLIDES

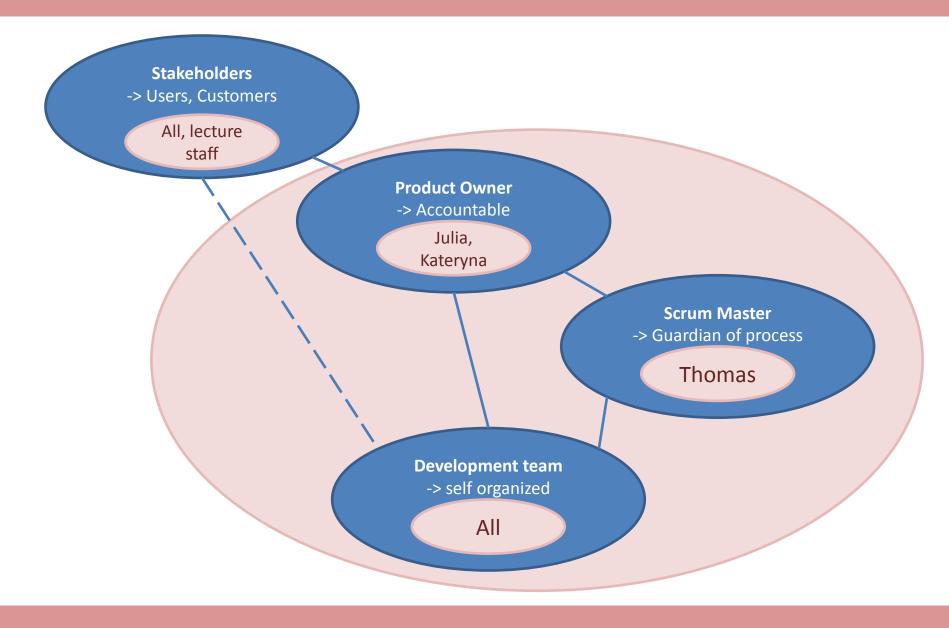
SHOPADMIN GOING AGILE

SCRUM AND SHOPADMIN

GENESIS OF SHOPADMIN

• While being agile the development approach of ShopAdmin follows the SCRUM Process





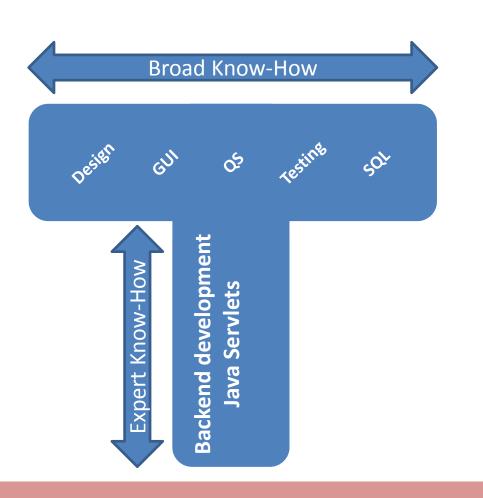
Characteristics:

- Self organizing team following the one-team-approach
- Interdisciplinary
- Close coworkers of the product owner
 - Support regarding product backlog refinement
- Responsible for sprint planning

Attributes:

- 3-9 persons
- Ideally T-Shaped members

The T-Shape and you...



Idea:

 Many T-Shapes cover all aspects and everybody has base knowledge in all areas PITCH SLIDES

SHOPADMIN GOING AGILE

SCRUM AND SHOPADMIN

GENESIS OF SHOPADMIN

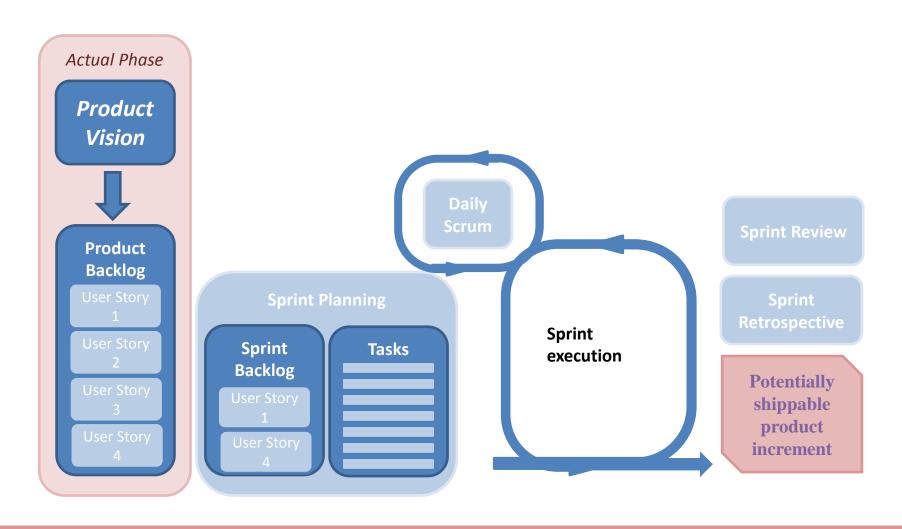
GENESIS OF SHOPADMIN

VISION ESTABLISHMENT 15.11.2015 - 27.11.2015

PLANNING THE FIRST SPRINT 27.11.2015

DAILY SCRUM *04.12.2015*

Where are we now?

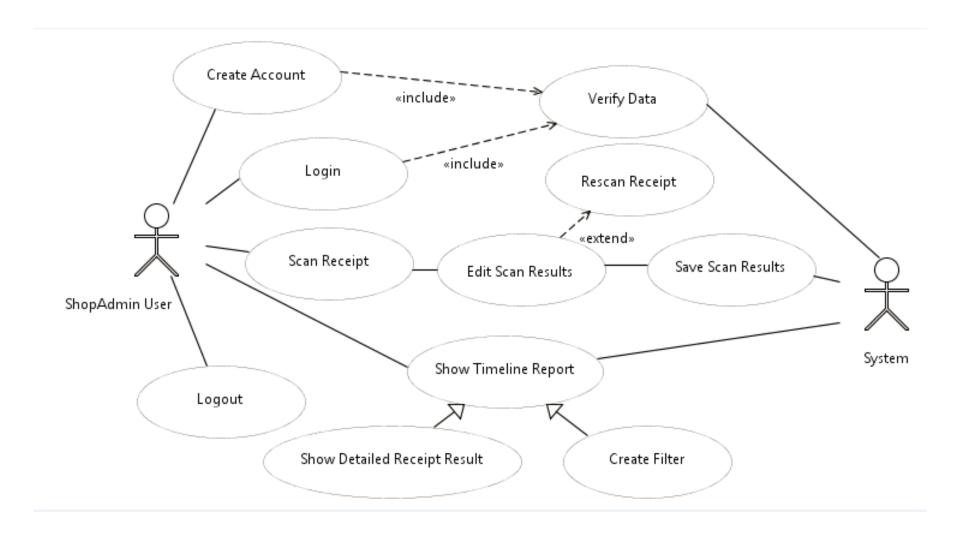


Starting from the vision of ShopAdmin during the establishment phase following topics have been addressed and solved:



- SetUp product backlog
 - Preparation of user stories
 - Stabilization of vision by UML diagram
 - Concretization of user stories by definition of use cases
- Arrangement of technical infrastructure
 - GitHub: created and tested
 - Development platform: Android SDK available to the team
 - ScrumDesk: Initialized for convenience

VISION ESTABLISHMENT



Definition of done:

- 1. All tasks have to be completed
- 2. All implementations have to be commented
- 3. All tests have to successfully run through
- 4. Documentation has to be updated
- 5. Everything has to be pushed to git
- 6. Scrum user story has to be set to completed

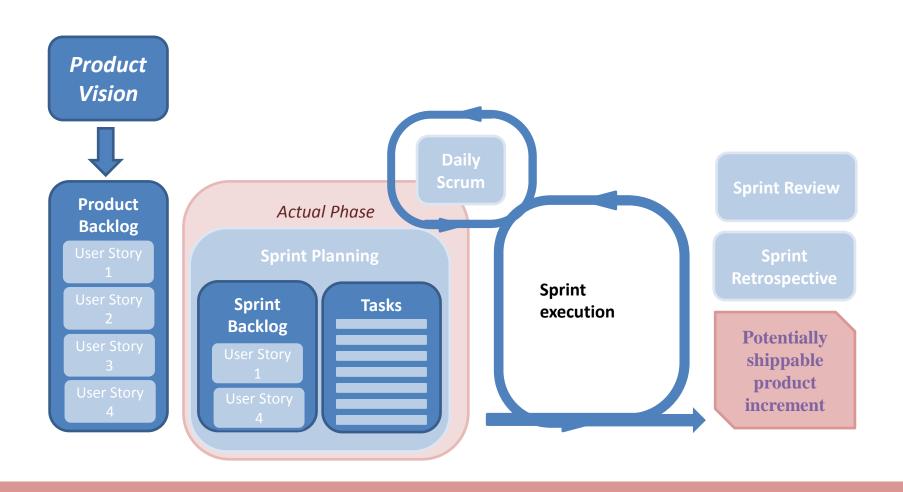
GENESIS OF SHOPADMIN

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Where are we now?



Purpose of the sprint planning:

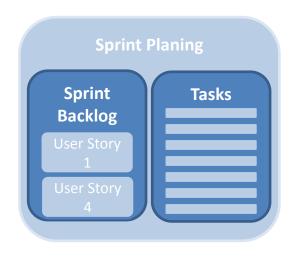
- Define the product backlog items which will be developed (What?)
- Plan the development (*How?*)

Preconditions:

- Product backlog is sufficient cultivated
- Business owner has a clear idea of the sprint goal
- Clarity of the capacity of the development team (resources and tools)

Result:

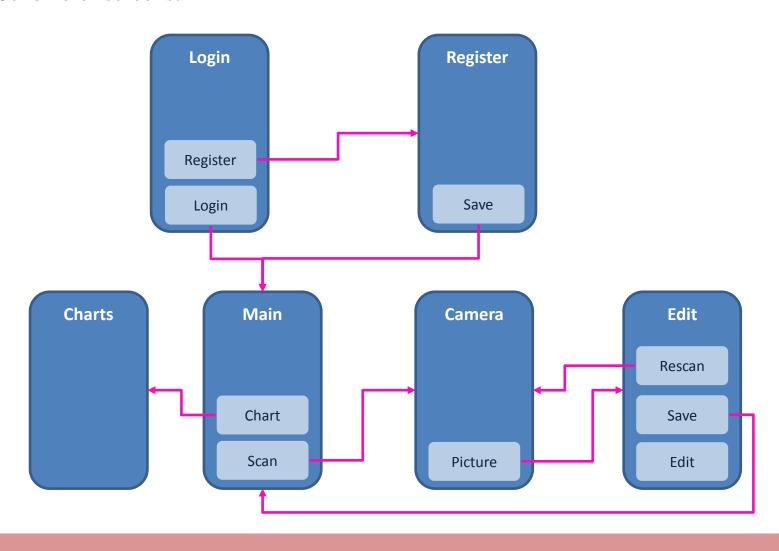
- Formalized Sprint Backlog
- Commitment on sprint goal



The Sprint Goal:

- Main goal for the first sprint is to develop a
 technical spike for the whole screen flow of the
 app, to build a sustainable base to grow further
 in the following sprints.
- Furthermore the UserStories Registration and Login are targeted for implementation.
- Additional benefit in getting used to Android development and strengthening of the SCRUM methodology.

Scheme of screens:



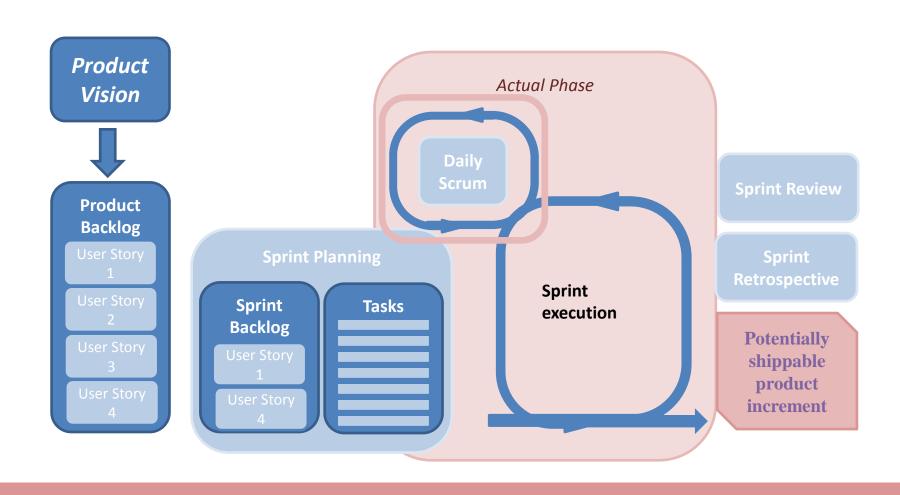
GENESIS OF SHOPADMIN

VISION ESTABLISHMENT 15.11.2015 – 27.11.2015

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DAILY SCRUM 04.12.2015

Where are we now?



Purpose:

- Synchronization of the development team
- Planning till the next daily scrum (Inspect & Adapt)

Preconditions:

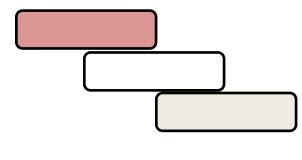
• Discipline regarding time box, communication, accuracy

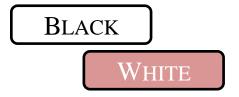
Result:

- Answers on the 3 questions by **all** participants:
 - 1. What was achieved since the last daily scrum
 - 2. What is planed till the next daily scrum
 - 3. Are there impediments on the way to the sprint goal

MokUp

- Corporate Design based on three colors:
 - pink
 - white
 - light grey
 - Font:
 - black
 - white





• MokUp

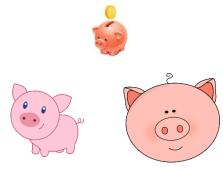
- Defined GUI-Elements
 - Buttons
 - Tables
 - Header
 - Data
 - 1x Dropdown Box
 - Category on EditView
 - 1x Undefined very fancy element to choose different reports

CLICK ME

COLUMN COLUMN
DATA DATA

Impediments:

• **Pigs!** We need more pigs...



User Stories:

- Dependencies regarding developments.
 - I.e. activity *register* needs to be finished before work on activity *login* can start.
- ➤ Reduce scope of user stories, so that one developer can work individually on one user story.
 - User stories will be recombined via Epics in ScrumDesk
- > Furthermore the impediment adapted to the commonly used android app
 - Technical resolution is based on interfaces