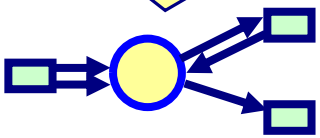
USER STORY ACCEPTANCE CRITERIA

Agile requirements

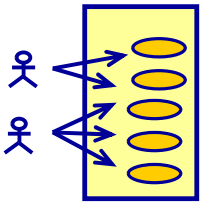
Understand the big picture



Context diagram

Identify the users

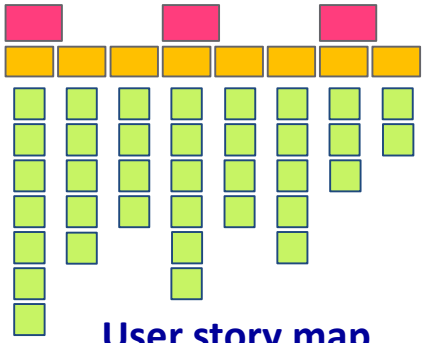
Personas



Use case diagram

Understand the goals of the users

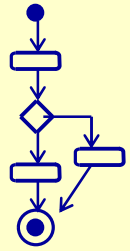
Find and understand the user stories



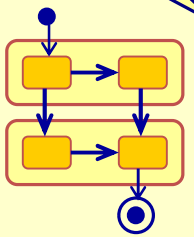
User story map

- Split user stories
- Write acceptance criteria

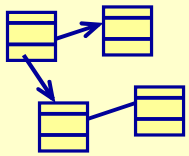
Communicate user stories



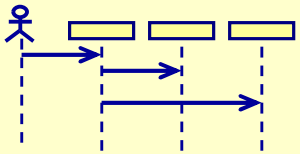
activity diagram



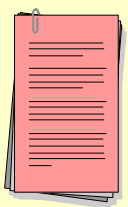
state machine diagram



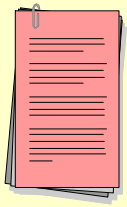
class diagram



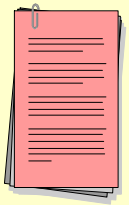
sequence diagram



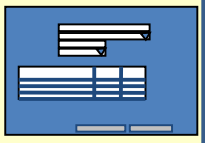
business rules



Non-Functional requirements

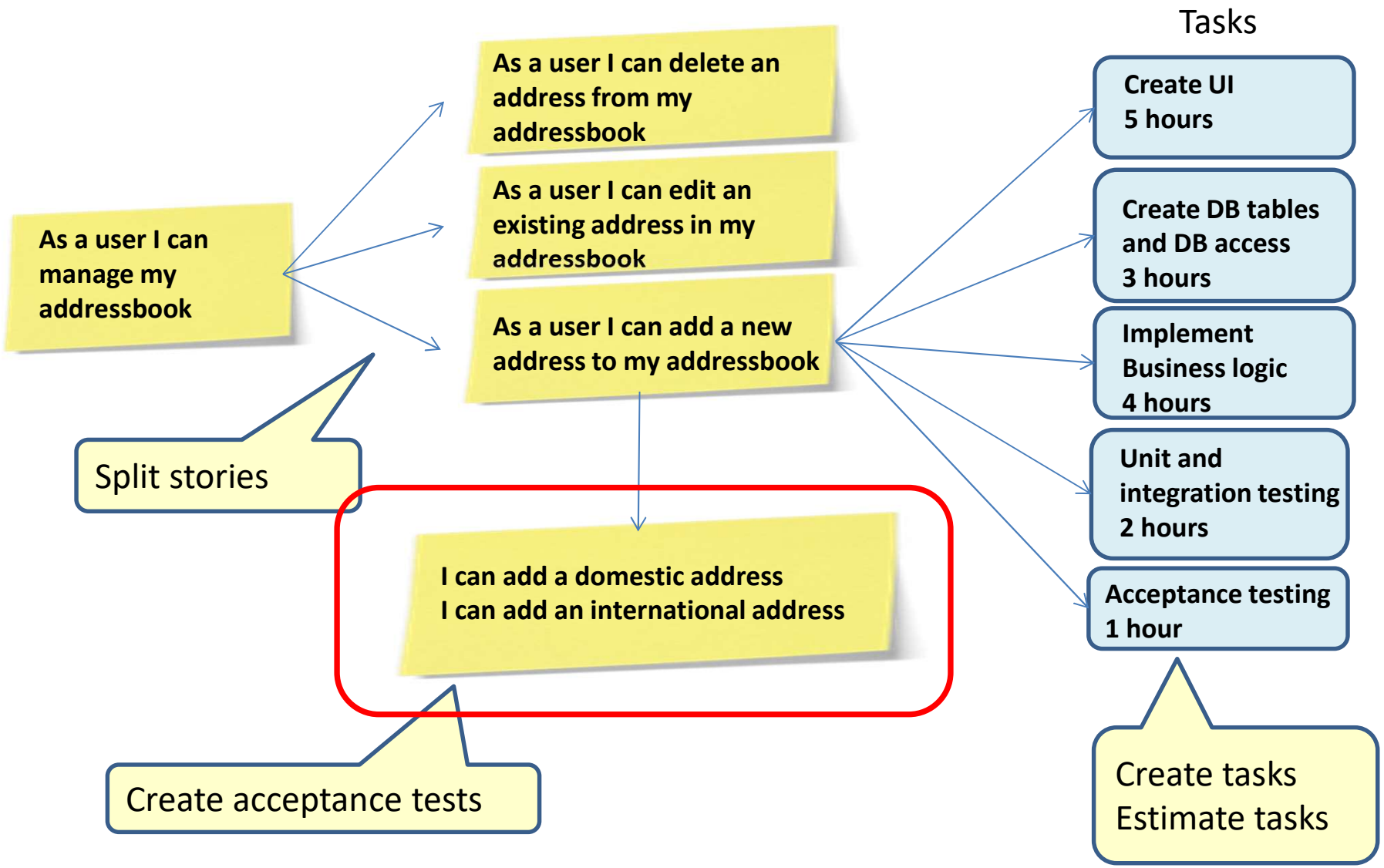


user scenario's



UI screens

Sprint backlog items



Story acceptance criteria

As a bank client, I want to transfer funds from my current account to another account, so that I can pay my bills	**- Client can transfer money between two accounts** **- Client can't transfer negative amount** **- Client can't transfer more than current account balance** **- Client can't transfer from a blocked account** ...

- Acceptance criteria define when the user story is done.
- They contain the details of the behavior of the system
- They serve to record the decisions made in the conversation
- They are the input for testing the user story

Good user story acceptance criteria

- The are written in the language of the business
- The product owner is the primary owner of the tests
- The acceptance criteria are black box
  - No design or implementation in acceptance criteria
- They test all possible scenarios
- Write at least one acceptance criteria for every user story
- They are high level
  - You don’t need to write down all details

User story acceptance test format

- Different format possible
  - Text
  - Table
  - Formula
  - Diagram
  - UI example
- Use the best format
  - Clear
  - Simple

Example acceptance criteria

As a customer I can search books so that it is easy to find books

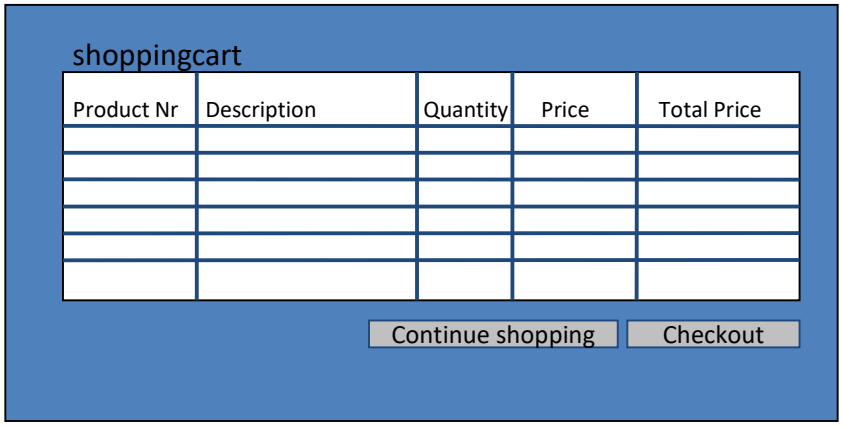
- You can search on
- **Title**
- **ISBN**
- **Author**
- **Keyword**

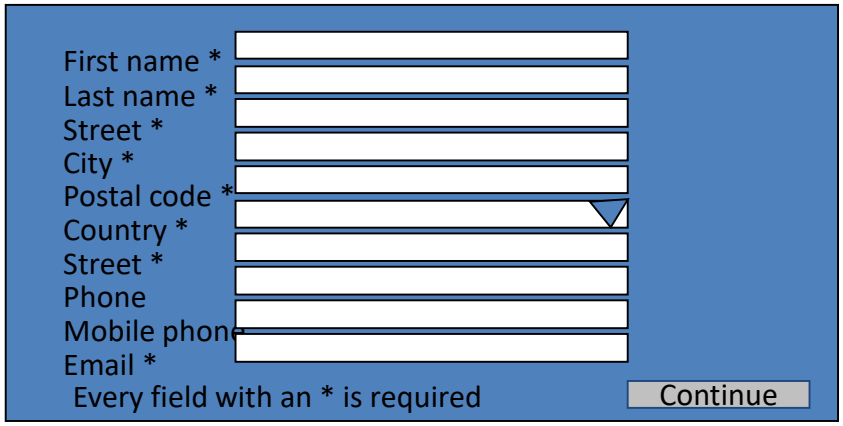
- Every search needs to return within 4 seconds

Example acceptance criteria

As a customer I can checkout the shopping cart giving my billing address, shipping address and credit card information so that I can order the items in the shopping cart

- Creditcards are first checked for validity





Example acceptance criteria

As a customer I can rate and review books so that other customers can see my opinion of the book.

-You can give the book a rating of 0, 1, 2, 3, 4 or 5 stars
- A review can contain a maximum of 1000 words

Example acceptance criteria

As a customer I can view detailed book information so that I can see all possible information about a book.

-I can see
-Title, ISBN, authors, publisher, description, price, picture of the book, reviews from readers
-Price shown is including tax
-Normal tax rules are applied

inter state	2.4%
intra state	1.1%
international	0.0%

Specification By Example

Expected System Behavior for sending emails through a third party service.

Service A is Up? .	Service B is Up? .	Is attachment more than 150Kb? .	Expected Primary Email Service	Expected Backup Email Service	Expected output if backup fails
Y	Y	Y	B	None - queue for later sending	-
Y	Y	N	A	B	display error
Y	N	Y	None - queue for later sending	-	-
Y	N	N	A	None - display error	-
N	Y	Y	B	None - queue for later sending	-
N	Y	N	B	None - display error	-
N	N	*	None - display error	-	-

* = all possible values

- = Not Applicable

Good for

- Tests where expected behavior depends on a lot of different inputs, conditions, or system states
- Tests where there are numerous different expected behaviors
- Tests where there are multiple different inputs and multiple different outputs
- Any test where it seems like a table would be useful to:
  - describe the test better, or
  - help explore all of the possible inputs and outputs for a test.

Bad for

- Simple tests
- Test where there is really only one input or precondition.

Given/When/Then

Given

A user who has submitted an incorrect old password 2 times in the last hour

When

The user submits an incorrect password (for the 3rd time)

Then

The system blocks the account

The system displays:

the customer service phone number.

a message telling them to call customer service.

Good for

- Tests that require a lot of preconditions, setup conditions/logic.
- Tests that require setup that is important or easily forgotten
- Tests that have a specific trigger.
- Tests that have one of the above characteristics AND, there is only one expected behavior/output

Bad for

- Simple tests
- Tests that have unimportant preconditions
- Test that have simple or obvious preconditions
- Tests where a single Given/When/Then only describes one of numerous very similar test scenarios
  - i.e. tests where there are a lot of input scenarios and/or output scenarios
- Tests where there are multiple different inputs and multiple different outputs