

Main Project (SPG)

Software Engineering II

2/11/2021

Version 1.0

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Product Owner and Scrum Master

- Can be contacted at (almost) any time
- PO (#product-owner channel)
 - Clarification on stories
 - Discussion during planning
- Scrum master (#scrum-master channel)
 - How to work
 - What can (not) be done

Daily Scrums

- Perform daily scrum
 - at beginning of new work session or
 - beginning of lecture
whichever come first

Time budget

- Roughly 8 person-hours per team member per week
- Sprint duration: 2 weeks
- Effort per sprint
 - 80 hours for 5-members teams
 - 96 hours for 6-members teams
 - 112 hours for 7-members teams

Estimation and planning

- All stories entered in a new project board
 - All stories estimated
 - Story points
 - Planning for the first sprint
-
- By Friday 5 Nov everything available on YouTrack board

Deadlines

- Thu Nov 5 - Estimation of all stories and first sprint planning
- Tue Nov 16 – Demo 1
- Tue Nov 30 – Demo 2 – Release 1
- Tue Dec 12 – Demo 3
- Tue Jan 11 – Demo 4 – Release 2

Deployment

- The **release** consists in providing a Docker container with all the software
 - Plus instructions on how to start and use the system
 - Must contain the full deployment

Solidarity Purchasing Group

Solidarity Purchasing Group

- Puts together
 - A number of clients/families
 - A few farmers
- With non-profit goal
- Using a critical purchasing approach
 - Knowledge of the origin
 - Quality
 - Type of production

Solidarity Purchasing Group

- Solidarity towards producers valuing
 - Small vs. large
 - Local and seasonal vs. global
 - Specific vs. mass
- Solidarity among clients
 - Not a normal shop but a group of people buying together
 - Sharing the principles to select producers

A software application for:

- Clients
- Farmers
- Shop employees
- Warehouse employees
- Managers
- Delivery people

SPG cycle

- By Saturday morning at 9 am farmers provide estimates of available products (with prices and quantities)
- Orders from clients are accepted until Sunday 23:00
- On Monday by 9:00 am the Farmers confirm available products
- Clients can schedule pick-up times
- By Tuesday evening farmers deliver their products to SPG organization
- Pickups take place from Wednesday morning until Friday evening
- Optionally delivery at home is possible with an extra fee

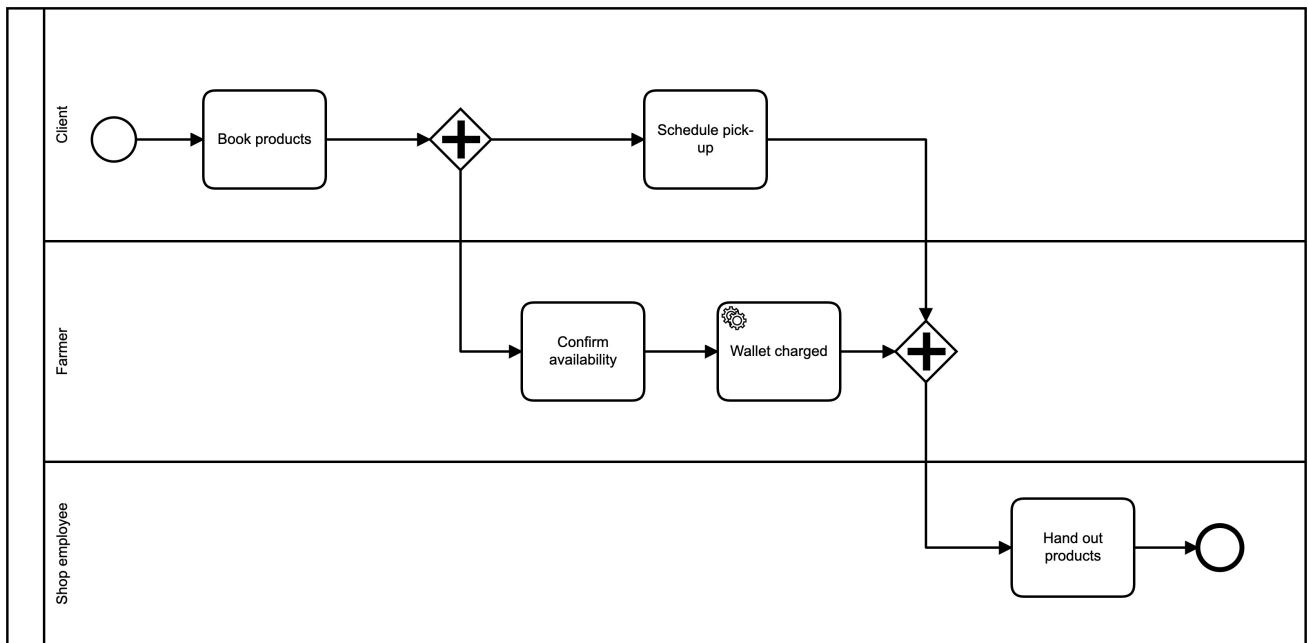
SPG Organization

- A shop where employees can give products to clients who purchased them
- Warehouse where farmers deliver their products and where the products are stocked

Payments

- Each client has a personal wallet
- Wallets can be topped-up by shop employees, e.g., after
 - Cash payment
 - Card payment
 - Bank transfer (checked on bank account listing)
 - Etc.
- Clients are reminded if balance is below booked order amount
- Wallets are charged after farmers confirm products

Order process (simplified)



Constraints

- System must be accessible through regular web browsers, smartphones, and tablets
- The system must be cross-platform
- Payments are processed outside the app

Test data

- Product test data can be inferred from:
<https://alvearechedicesi.it/it/assemblies/10920/collections/307569/products/category/1>
 - At least 50 distinct products must be available in the catalog
 - At least two distinct farmers should be registered
 - You can cooperate to develop a common data set
- Since the system works over week-long periods, a virtual clock must be available for testing purposes
 - Virtual clock must let the tester fast-forward time.

Product Backlog

Stories are already in priority order, the most valuable is the first one

Story 1

As a shop employee

I want to enter product requests for a client

So her products are booked

Story 2

As a shop employee

I want to enter new client data

So that she is registered in the system

Story 3

As a shop employee

I want to browse available products

So that I can show the clients what is available

Story 4

As a Shop Employee

I want to hand out products to client

Story 5

As a shop employee

I want to top-up a client's wallet

Story 6

As a unregistered user

I want to register to the platform

So that I can access all the services

Story 7

As a registered client

I want to add products to my basket

So that they are reserved

Story 8

As a registered client

I want to receive a reminder that my wallet balance is insufficient

So that I can top it up

Story 9

As a farmer

I want to report expected available product amounts for the next week

So that I can advertise my products

Story 10

As a shop employee

I want to know orders pending cancelation due to insufficient wallet balance

So that I can contact the clients who placed them

Story 11

As a registered client

I want to browse the
products available for
next week

So that I can plan my
purchase

Etc...