

Software Project Management - Laboratory

Lecture n° 6

A.Y.

2020-2021

User Stories

A User Story is a simple and quick description of a specific way that the user will use the software. Generally between one and four sentences long.

Can generally follow a template:

*As a <type of user>,
I want to <specific action I'm taking>
so that <what I want to happen as a result>.*

e.g. “As a customer, I want to be able to create an account so that I can see the purchases I made in the last year to help me budget for next year.”

Assign a value to estimate the effort needed to elaborate a user story (e.g., 1 to 5).

Github Issues

Filters

Labels 13

Milestones 1

New issue

4 Open ✓ 1 Closed

Author ▾


Label ▾



Projects ▾


Milestones ▾

Assignee ▾

Sort ▾

 **Driver Login** points: 2 user story
#5 opened 6 hours ago by FabrizioFornari  Sprint 1

 **Driver Geolocalization** points: 4 user story
#4 opened 7 hours ago by FabrizioFornari  Sprint 1

 **User Story 3** points: 2
#3 opened 20 days ago by FabrizioFornari

 **User Story #1** points: 3 user story
#1 opened 22 days ago by FabrizioFornari  0 of 2 

 1

Milestones as Sprint Backlog

The screenshot shows the GitHub interface for Milestones. At the top, navigation tabs include Code, Issues (3), Pull requests, Actions, Projects (1), Security, Insights, and Settings. Below this, there are tabs for Labels and Milestones, with a 'New milestone' button on the right. The main content area shows a filter for '1 Open' and '0 Closed' milestones, with a 'Sort' dropdown. A single milestone, 'Sprint 1', is displayed. It has a progress bar that is 50% complete (green), with 1 open and 1 closed issue. The milestone is past due by 6 days and was last updated less than a minute ago. Below the milestone name, it says 'First Sprint'. Action links for 'Edit', 'Close', and 'Delete' are visible.

<> Code **Issues 3** Pull requests Actions Projects 1 Security Insights Settings

Labels **Milestones** [New milestone](#)

📌 1 Open ✓ 0 Closed Sort ▾

Sprint 1 50% complete 1 open 1 closed

⚠️ Past due by 6 days ⌚ Last updated less than a minute ago

First Sprint [Edit](#) [Close](#) [Delete](#)

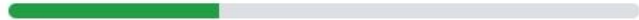
Milestones as Sprint Backlog

Labels Milestones

Edit milestone

New issue

Sprint 1



⚠ Past due by 6 days 33% complete

First Sprint

2 Open ✓ 1 Closed

Driver Login **points: 2** **user story**
#5 opened 6 hours ago by FabrizioFornari

Driver Geolocation **points: 4** **user story**
#4 opened 7 hours ago by FabrizioFornari

BPMN

Based on popular graphical flowcharts:

- Core set of notation elements
- Each core element has various subtypes

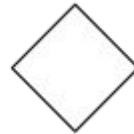
A BPMN process model is a graph consisting of four types of core elements:



Activities



Events



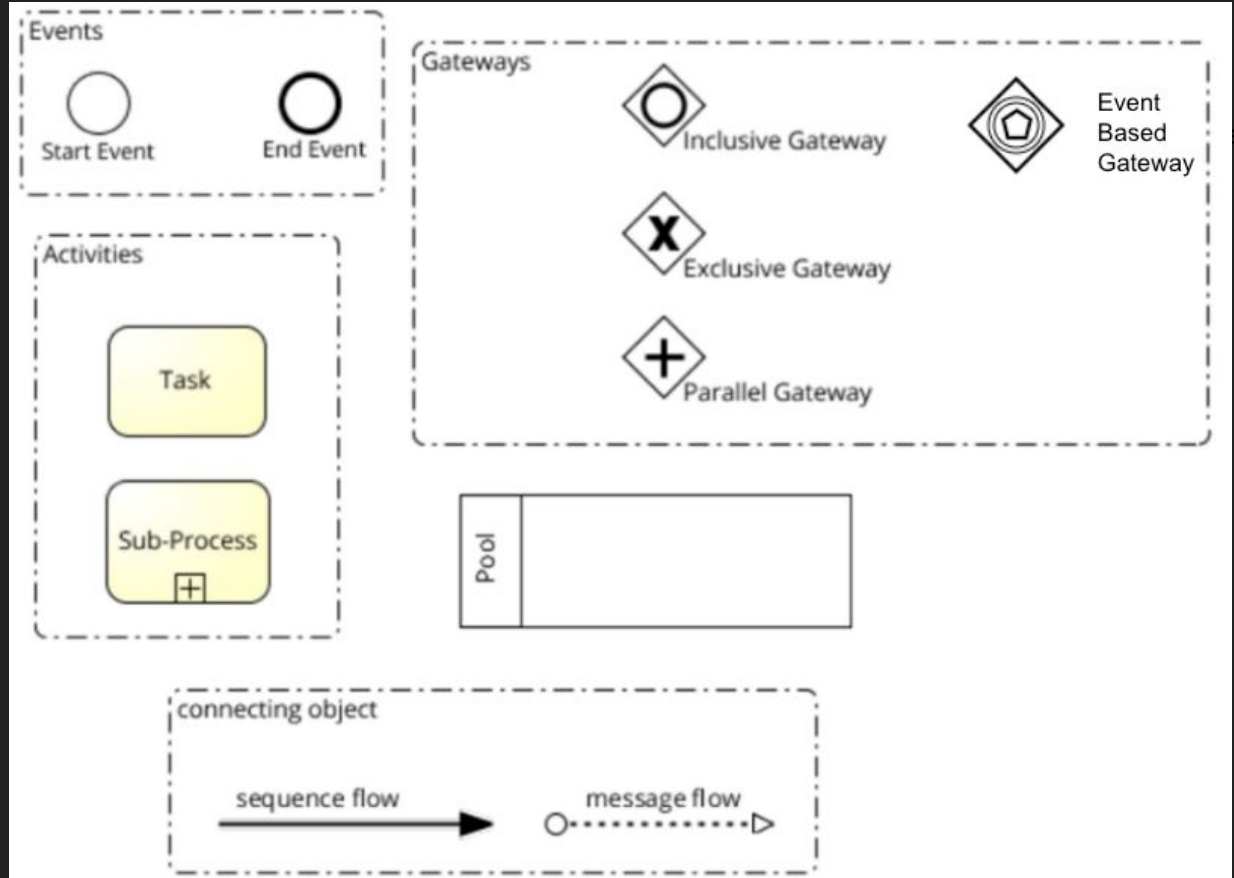
Gateways



Flows

BPMN

Use BPMN to represent the admitted behavior in your application for of each Sprint.



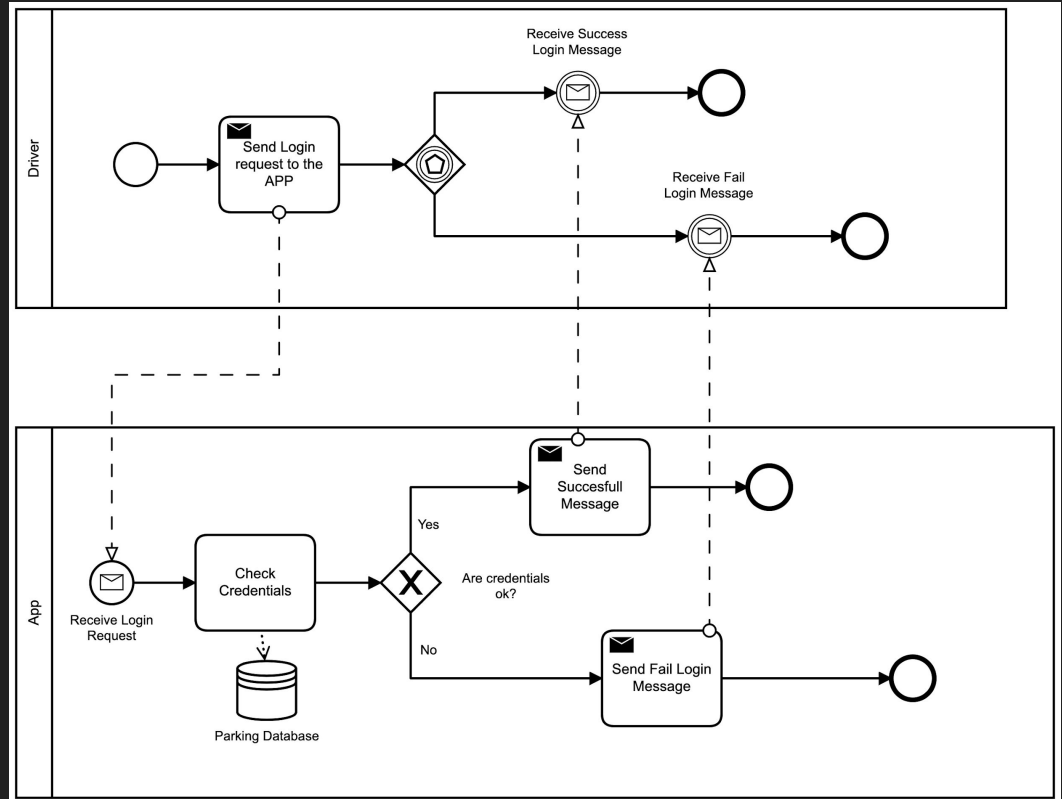
BPMN

Reasoning on a Process level can help you in dividing User Stories and Tasks.

You can design BPMN models to describe the user stories your prototype satisfies

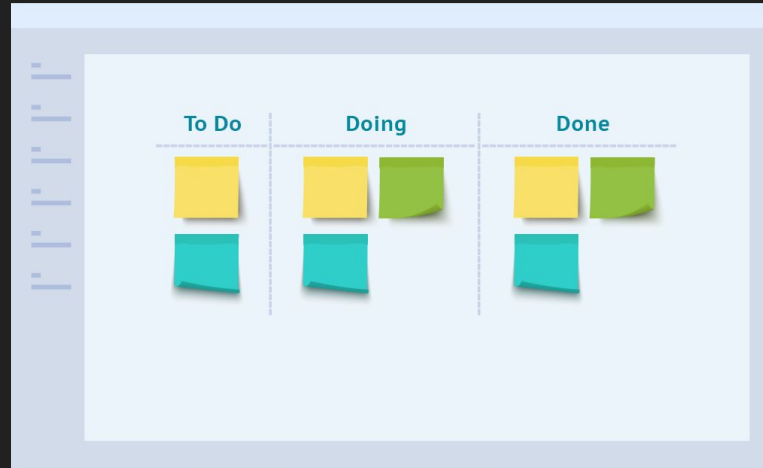
CAWEMO - a Collaborative BPMN Modeler

<https://cawemo.com/>



Kanban

Kanban is a visual system for managing work as it moves through a process. Kanban visualizes both the process (the workflow) and the actual work passing through that process.



Kanban, also spelt “kamban” in Japanese, translates to “Billboard” (“signboard” in Chinese) that indicates “available capacity (to work)”. Kanban is a concept related to lean and just-in-time (JIT) production, where it is used as a scheduling system that tells you what to produce, when to produce it, and how much to produce.

Divide User Stories Into Small Tasks

User Stories vs Tasks

www.mountaingoatsoftware.com

The screenshot displays a Jira interface for a project named 'FabrizioFornari / SPM2020Template'. The top navigation bar includes 'Code', 'Issues 4', 'Pull requests', 'Actions', 'Projects 2', and 'Security'. The main content area is titled 'Sprint #1' and 'Updated 1 hour ago'. It is divided into two columns: 'Sprint Backlog' and 'To do'.

Sprint Backlog (3 items):

- Driver Geolocalization** (points: 4, user story): #4 opened by FabrizioFornari. Reference: Sprint 1.
- User Story #1** (points: 3, user story): #1 opened by FabrizioFornari. Reference: 0 of 2.
- Driver Login** (points: 2, user story): #5 opened by FabrizioFornari. Reference: 1 of 3.

To do (2 items):

- Design Driver Database Table #5** (points: 2, user story): #5 opened by FabrizioFornari in FabrizioFornari/SPM2020Template. Reference: 1 of 3.
- Design a login page #5** (points: 2, user story): #5 opened by FabrizioFornari in FabrizioFornari/SPM2020Template. Reference: 1 of 3.