

# **School of Computer Science and Engineering (CSE)**

**COMP9900 Information Technology Project**  
**COMP3900 Computer Science Project**

**2023 Term 3**

**Week 2**

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**UNSW**  
SYDNEY

# Outline

- Scrum Agile Methodology
- Scrum in Jira
- Interface and Flow Diagrams (Storyboards)
- System Architecture
- Week 2 Lab Tasks
- Q & A

# Scrum Agile Methodology

## Introduction

- Classical methods of software development (such as Waterfall) have many disadvantages
  - **huge effort** during the **planning** phase
  - **poor requirements conversion** in a rapid changing environment
  - treatment of staff as a '**factor of production**'
- New methods
  - **Agile** Software Development Methodology

## What is Agile?

Agile advocates believe

- Current software development processes are too **heavyweight** or cumbersome
  - Too many things are done that are not directly related to the software product being produced
- Current software development is too **rigid**
  - Difficulty with incomplete or changing requirements
  - Short development cycles (Internet applications)
- More **active customer involvement** needed

## What is Agile?

- Agile methods are considered
  - **Lightweight**
  - **People-based** rather than Plan-based
- Several agile methods
  - No single agile method
  - **Scrum**, Extreme Programming (XP), Rational Unified Process (RUP), ...
- No single definition
- **Agile Manifesto** closest to a definition
  - Set of principles
  - Developed by Agile Alliance

# What is Agile?

## Agile Manifesto

- A Statement of **Values**
  - **Individuals and interactions** over *processes and tools*
  - **Working software** over *comprehensive documentation*
  - **Customer collaboration** over *contract negotiation*
  - **Responding to change** over *following a plan*
- See <http://agilemanifesto.org> for more details

# What is Agile?

## Agile Methods

- Agile methods:
  - Scrum
  - Extreme Programming (XP)
  - Rational Unified Process (RUP)
  - Adaptive Software Development (ASD)
  - Dynamic System Development Method (DSDM)
  - ...
- Agile Alliance ([www.agilealliance.org](http://www.agilealliance.org))
  - A non-profit organization that promotes agile development



## Scrum

### Why is it called a **Scrum**?

- The term “Scrum” has its origins in rugby, a sport which revolves around **cooperation, adaptability, speed** and **self-direction** of the rugby team
- In a scrum, the team jointly tries to reach a goal and win the match
- In addition to cooperation, the team must rapidly **respond to changes**



# Scrum

## Scrum in 100 words

- Scrum is an **agile process** that allows us to focus on delivering the **highest** business value in the **shortest** time
- It allows us to rapidly and repeatedly inspect actual working software (every **two weeks** to **one month**)
- The business sets the priorities. Our teams **self-manage** to determine the best way to deliver the **highest priority features**
- Every two weeks to a month anyone can see **real working software** and decide to release it as is or continue to enhance for another iteration

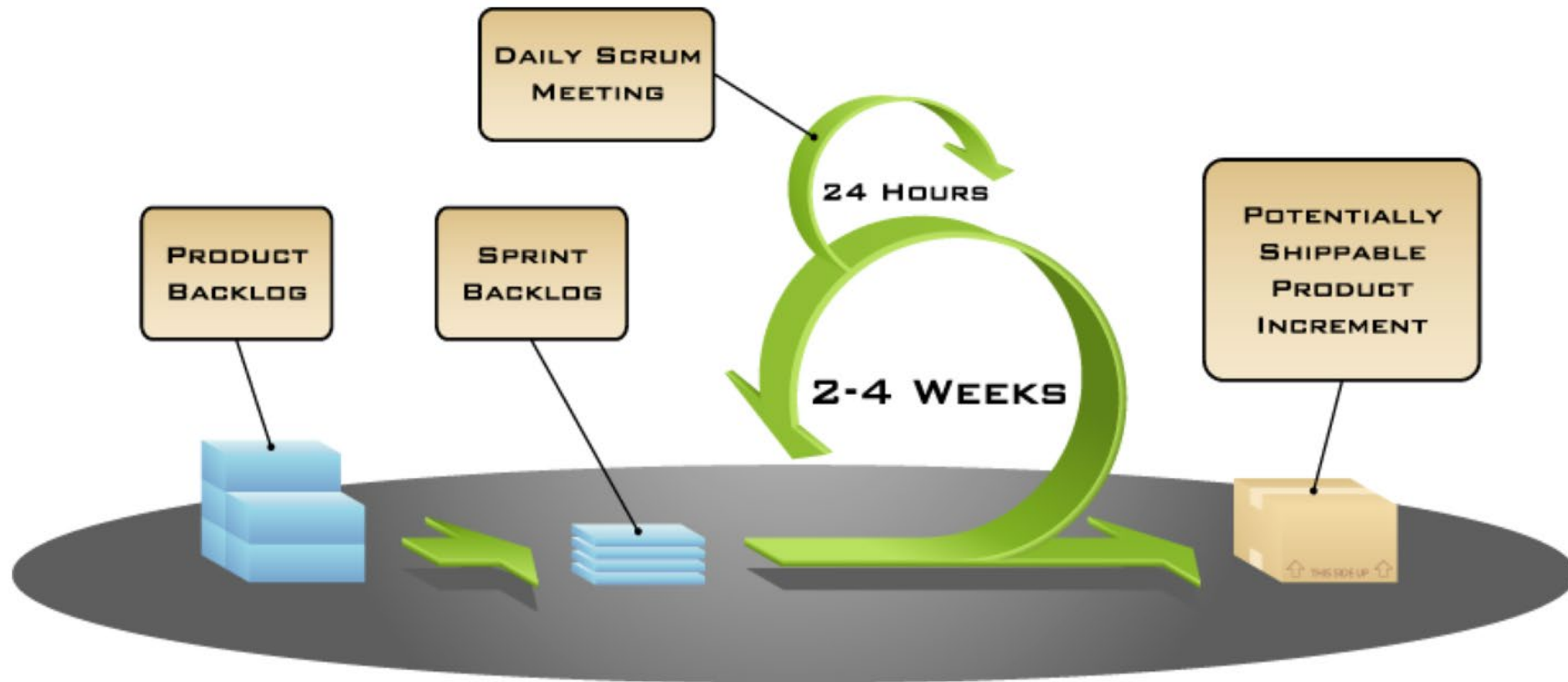
# Scrum

## History of Scrum

- 1995
  - Analysis of common software development processes → **not suitable** for **empirical, unpredictable** and **non-repeatable** processes
  - Design of a **new** method: **Scrum** by Jeff Sutherland and Ken Schwaber
  - **Enhancement** of Scrum by Mike Beedle
  - **Combination** of Scrum with **Extreme Programming**
- 1996
  - Introduction of **Scrum** at **OOPSLA** conference
- 2001
  - Publication “**Agile Software Development with Scrum**” by Ken Schwaber and Mike Beedle
- Successful application of Scrum in over 50 companies
- Founders are members of the Agile Alliance

# Scrum

## How Scrum Works?



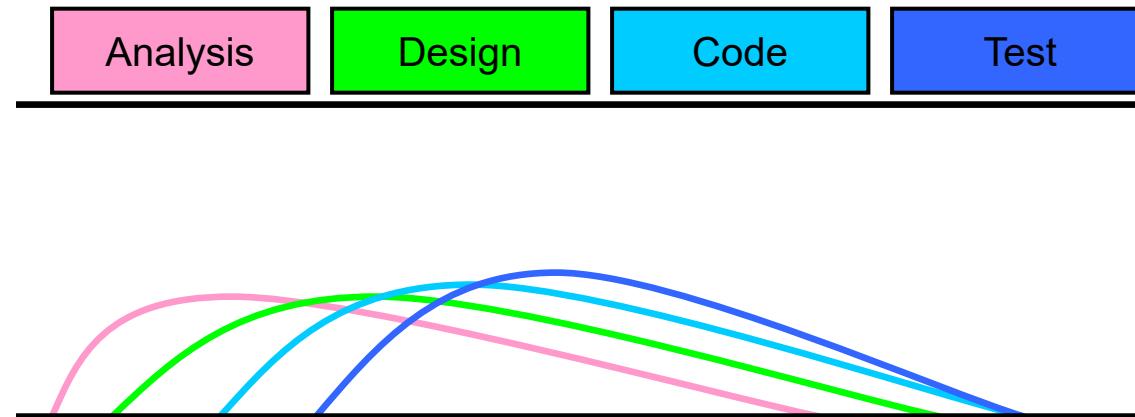
# Scrum

## Sprints

- Scrum projects make progress in a series of “sprints”
- Target duration is **two weeks**
  - +/- a week or two
  - A **constant** duration leads to a **better rhythm**
- Product is **designed, coded, and tested** during the sprint

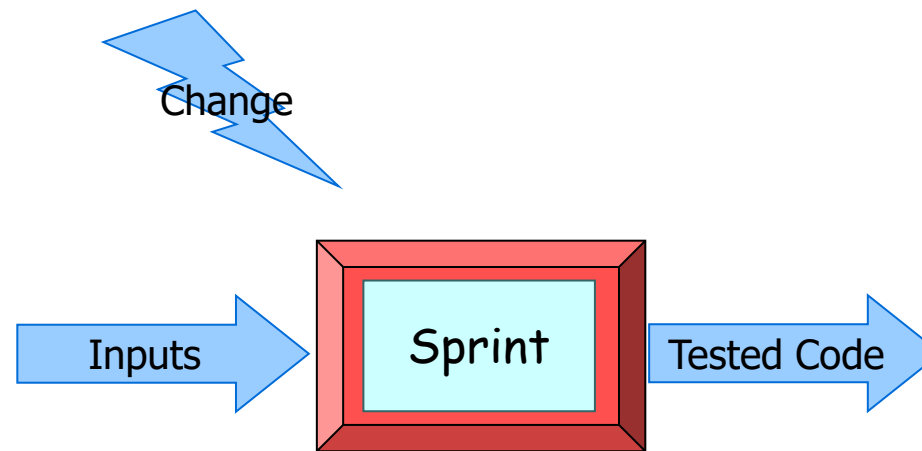
# Scrum

## Sequential vs. Overlapping Development



# Scrum

No changes during the sprint



Plan sprint durations around how long you can commit to **keeping change out of the sprint**

# Scrum Framework

- **Roles**

- Product Owner
- Scrum Master
- Scrum Team

- **Ceremonies**

- Sprint Planning
- Sprint Review
- Sprint Retrospective
- Daily Scrum Meeting

- **Artifacts**

- Product Backlog
- Sprint Backlog
- Burndown Chart



## Scrum Framework

### Product Owner

- Define the features of the product
- Decide on release date and content
- Be responsible for the profitability of the product, that is, Return On Investment (ROI)
- Prioritize features according to market value
- Adjust features and priority of every iteration, as needed
- Accept or reject work results

## Scrum Framework

### Scrum Master

- Represents management to the project
- Responsible for enacting Scrum values and practices
- Removes impediments
- Ensure that the team is fully functional and productive
- Enable close cooperation across all roles and functions
- Shield the team from external interferences

# Scrum Framework

## Scrum Team

- Typically, 5-10 people
- Cross-functional
  - Programmers, UI Designers, QA (Testers), ...
- Members should be full-time
  - May be exceptions (e.g., System Admin, ...)
- Teams are self-organizing
  - Ideally, no titles but rarely a possibility
- Membership can change only between sprints

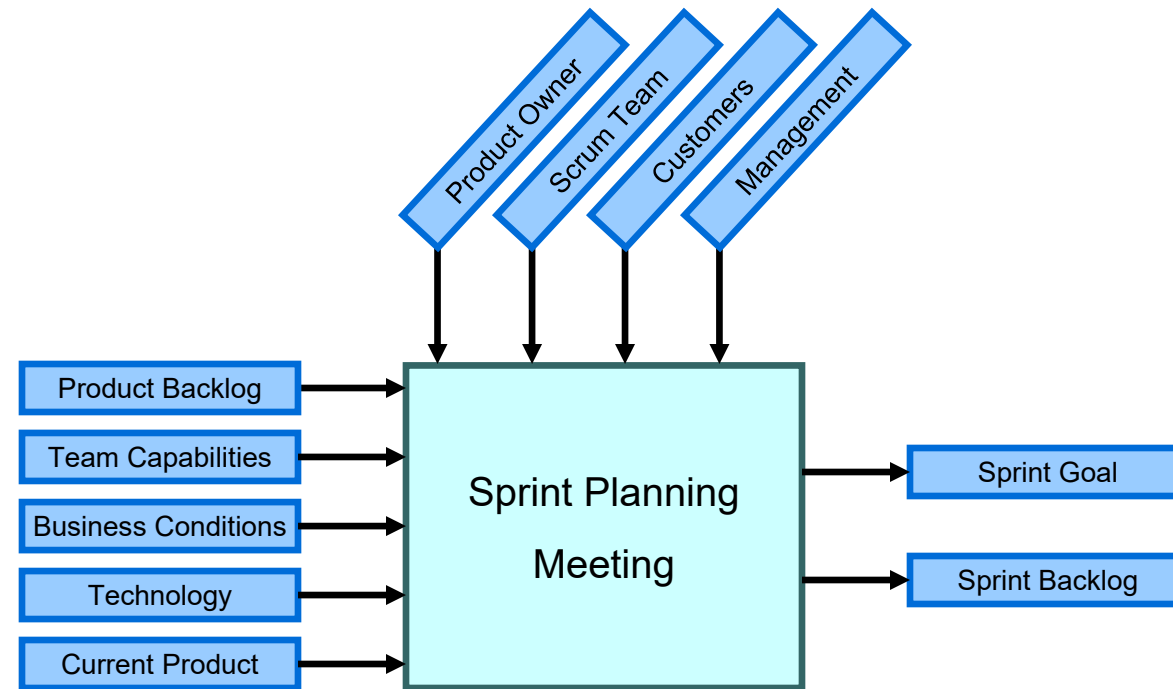
# Scrum Framework

## Ceremonies

- Sprint Planning Meeting
- Sprint
- Daily Scrum
- Sprint Review Meeting

# Scrum Framework

## Sprint Planning Meeting



# Scrum Framework

## Parts of Sprint Planning Meeting

- 1st Part:
  - Creating Product Backlog
  - Determining the Sprint Goal
  - Participants: Product Owner, Scrum Master, Scrum Team
- 2nd Part:
  - Creating Sprint Backlog
  - Participants: Scrum Master, Scrum Team

# Scrum Framework

## Pre-Project/Kickoff Meeting

- A special form of Sprint Planning Meeting
- Meeting before the beginning of the Project

# Scrum Framework

## Sprint

- A fortnight to a month-long iteration, during which a product functionality is incremented
- NO outside influence can interfere with the Scrum team during the Sprint
- Each Sprint begins with the Daily Scrum Meeting



# Scrum Framework

## Daily Scrum

- Parameters
  - Daily
  - 15-minutes
  - Stand-up
  - Not for problem solving
- Three questions:
  - What did you do yesterday
  - What will you do today?
  - What obstacles are in your way?

## Scrum Framework

### Daily Scrum

- Is NOT a problem solving session
- Is NOT a way to collect information about WHO is behind the schedule
- Is a meeting in which team members make commitments to each other and to the Scrum Master
- Is a good way for a Scrum Master to track the progress of the Scrum Team

# Scrum Framework

## Scrum FAQs

- Why daily?
  - “How does a project get to be a year late?”
    - “One day at a time”  
Fred Brooks, The Mythical Man-Month
- Can Scrum meetings be replaced by emailed status reports?
  - No
    - Entire team **sees the whole picture every day**
    - Create **peer pressure** to do what you say you will do

# Scrum Framework

## Sprint Review Meeting

- Team presents what it accomplished during the sprint
- Typically takes the form of a demo of new features or underlying architecture
- Informal
  - 2-hour prep time rule
- Participants
  - Customers
  - Management
  - Product Owner
  - Other engineers



## Scrum Framework

### Sprint Retrospective Meeting

- Scrum Team only
- Feedback meeting
- Three questions
  - Start (ideas for next sprint)
  - Stop (what didn't go well)
  - Continue (what went well)
- Do not skip!

## Scrum Framework

# Sprint Retrospective - Example for Sprint 1

*Last  
retrospective's  
To Try*

First sprint so N/A

***What went well***

Met sprint goal

***What didn't go so well***

Duplicated work  
(2 team-members  
accidentally working on  
same task without  
knowing)

***To Try***

## Scrum Framework

# Sprint Retrospective - Example for Sprint 1

<i>Last retrospective's To Try</i>	<i>What went well</i>	<i>What didn't go so well</i>	<i>To Try</i>
First sprint so N/A	Met sprint goal	Duplicated work (2 team-members accidentally working on same task without knowing)	Ensure everyone sends daily scrum updates if absent from the daily scrum meeting (Jake checks that everyone's present, and reminds any absentees to email status update to team)

## Scrum Framework

# Sprint Retrospective - Example for Sprint 2

### *Last retrospective's To Try*

Ensure everyone sends daily scrum updates if absent from the daily scrum meeting.  
(Jake checks that everyone's present, and reminds any absentees to email status update to team)

*This worked well.  
Everyone knows  
what everyone else  
is doing - no more  
duplicate work*

### *What went well*

Met sprint goal  
  
No more duplicated work

### *What didn't go so well*

Software unit demonstrated was buggy

### *To Try*

Write unit tests for each unit developed  
(all members to follow up on that)



# Scrum Framework

## Product Backlog

- A list of all desired work on the project
  - Usually, a combination of
    - story-based work (“let user search and replace”)
    - task-based work (“improve exception handling”)
- List is **prioritized** by the Product Owner (sometimes together with the Scrum Master)
  - Typically, Product Manager, Marketing, Internal Customer, ...

## Scrum Framework

### Product Backlog

- **Requirements** for a system, expressed as a **prioritized** list of **Backlog Items**
- Is managed and owned by a Product Owner
- Spreadsheet / Jira (typically)
- Is usually created during the Sprint Planning Meeting
- Can be changed and re-prioritized before each sprint planning meeting

## Scrum Framework

### From Sprint Goal to Sprint Backlog

- Scrum team takes the Sprint Goal and decides what tasks are necessary
- Team self-organizes around how they will meet the Sprint Goal
  - Manager does not assign tasks to individuals
- Managers do not make decisions for the team (but they can decide priority)
- Sprint Backlog is created

## Scrum Framework

### Sprint Backlog during the Sprint

- Changes
  - Team adds new tasks whenever they need to in order to meet the Sprint Goal
  - Team can remove unnecessary tasks
  - Sprint Backlog can only be updated by the team
- Estimates are updated whenever there is new information

## Scrum Framework

### Sprint Backlog

- A **subset** of Product Backlog Items
- Define the work for a Sprint
- Is **ONLY** created by team members
- Each item has its own status
- Should be updated every day

## Scrum Framework

### Sprint Backlog

- No more than 300 tasks in the list
- If a task requires say more than 21 **story points** (to be precise, a small number of story points, to be discussed), it should be broken down
- Team can add or subtract items from the list
  - Product Owner is not allowed to do it

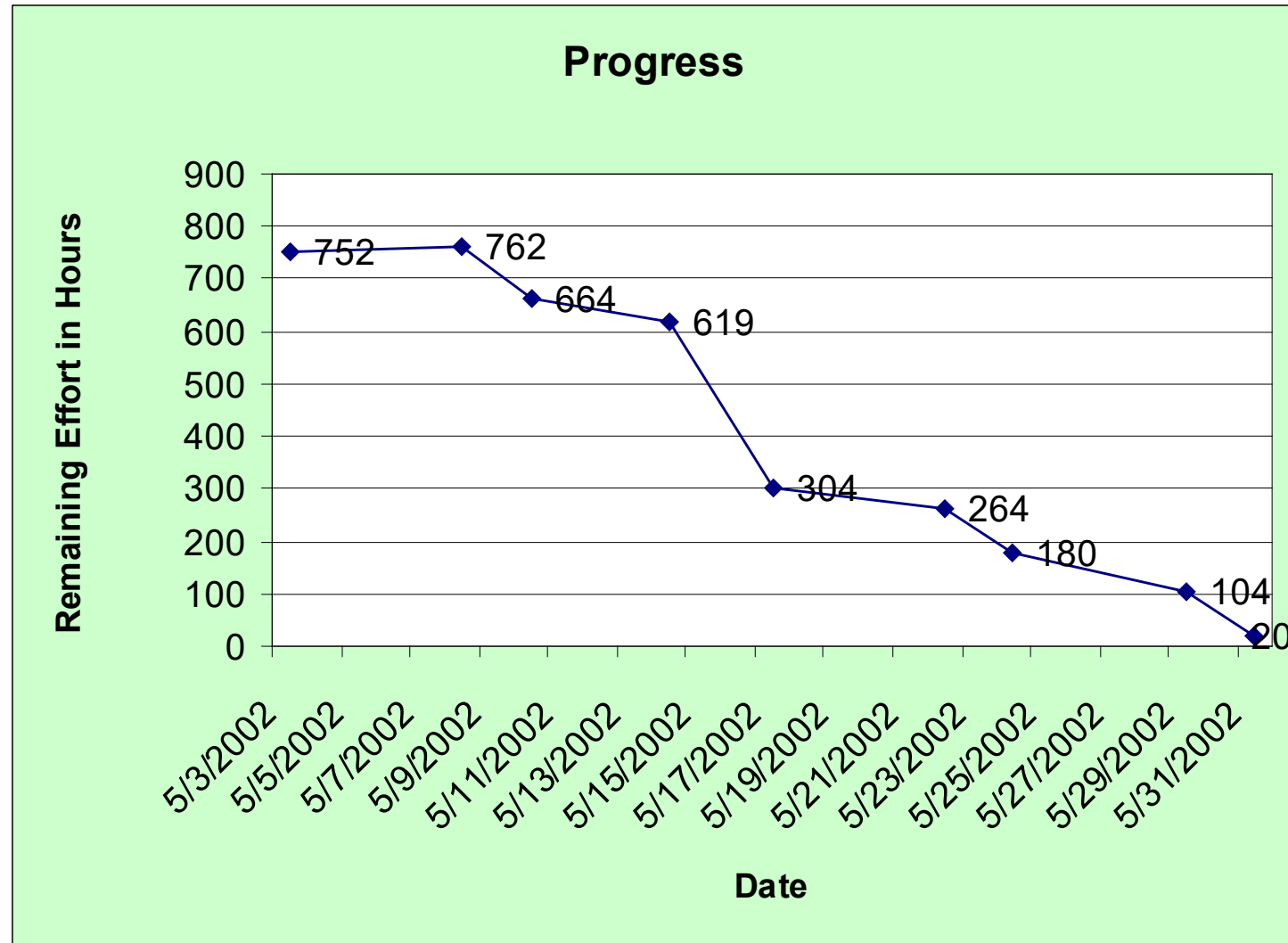
## Scrum Framework

### **Sprint** Burndown Chart

- Depicts the total Sprint Backlog hours (i.e., sprint points) remaining per day
- Shows the estimated amount of time to release
- Ideally should burn down to zero to the end of the Sprint
- It is not a straight line
- Can bump up

# Scrum Framework

## Sprint Burndown Chart





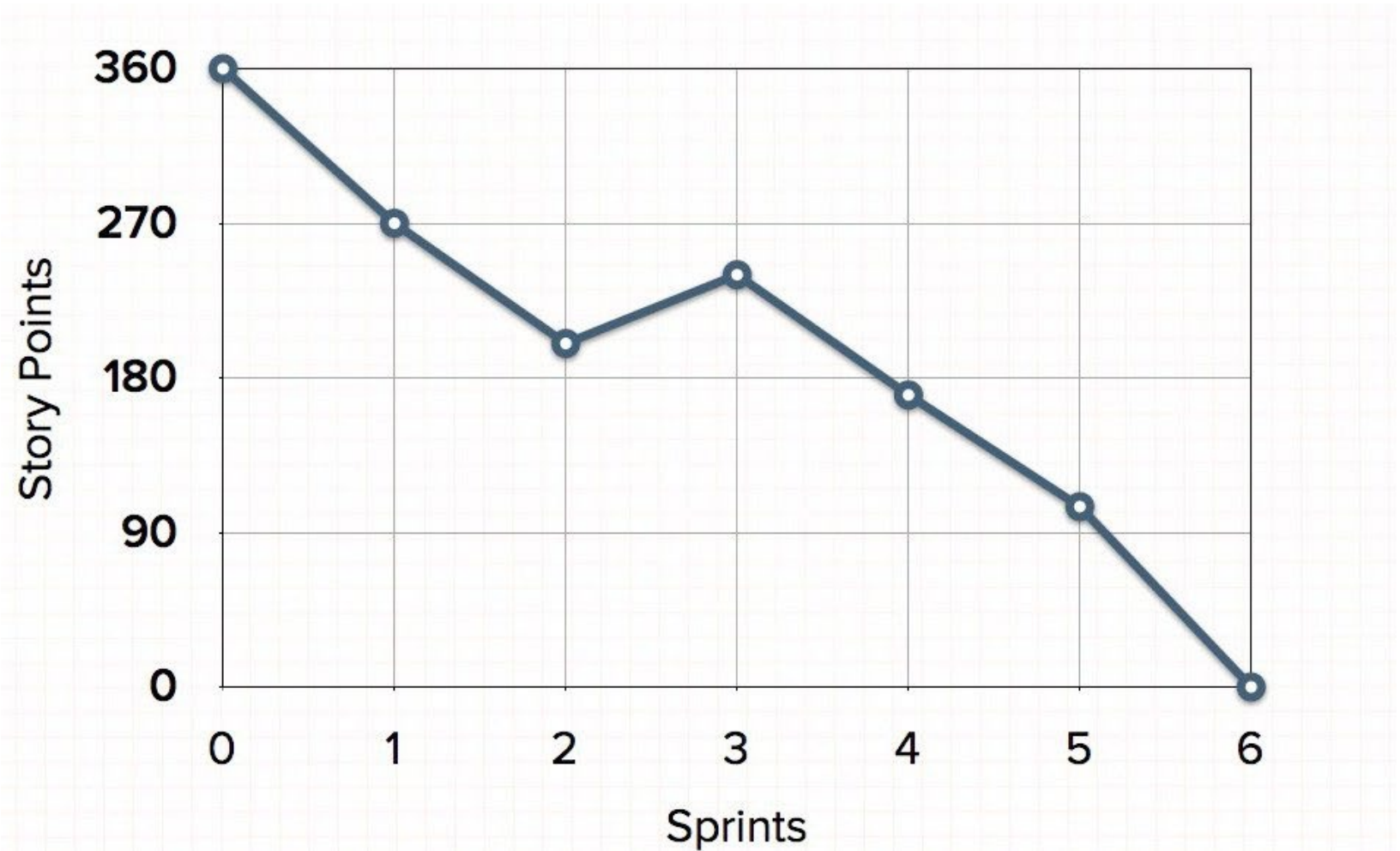
## Scrum Framework

### **Release/Product** Burndown Chart

- Will the release be done right time?
- X-axis: sprints
- Y-axis: number of hours (or sprint points) remaining
- The estimated work remaining can also burn up

## Release/Product Burndown Chart

- Is a “big picture” view of project’s progress (all the releases)



# Scrum with Jira

Jira Software

Your work

Projects

Filters

Dashboards

Teams

Apps

Create

Q Search

?

R

Projects

Q

Jira Software

x

★	Name ↓	Key	Type	Lead	
☆	<div><div></div><div>3900W09AFantasticFive</div></div>	FV3900	Team-managed software	<div>R</div> Rachid	...

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1

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3900W09AFantasticFive  
Software project

## PLANNING



Roadmap



Backlog



Board

## DEVELOPMENT



Code



Project pages



Add shortcut



Project settings

Does your team need more from Jira? [Get a free trial of our Standard plan.](#)

Projects / 3900W09AFantasticFive

## Backlog



R



Epic ▾

▼ FV3900 Sprint 1 Add dates (0 issues)

0

0

0



This is where you plan a sprint

Drag issues from the backlog section, or create new issues, to plan the work for this sprint. Select *Start sprint* when you're ready.

Your work

**Projects**

Filters

Dashboards

More

+

Q Search

MS

Projects / Sample Scrum Project / SSP board

Backlog

Share

Q

MS

Only My Issues

Recently Updated

VERSIONS

EPICS

Backlog 11 issues

Create sprint

As a developer, I can update story and task status with drag and drop (click the triangle at far left of this s	VERSION 2.0	MS	SSP-10	↑	5
As a developer, I can update details on an item using the Detail View >> Click the "SSP-13" link at the top	VERSION 2.0	MS	SSP-13	↑	
As a user, I can find important items on the board by using the customisable "Quick Filters" above >> Try clicking the "Or	MS	SSP-14	↑	3	
As an Agile team, I'd like to learn about Scrum >> Click the "SSP-1" link at the left of this row to see detail in the	VERSION 2.0	SSP-1	↑	2	
As a product owner, I'd like to express work in terms of actual user problems, aka User Stories, and place them i	VERSION 2.0	SSP-2	↑	2	
As a product owner, I'd like to rank stories in the backlog so I can communicate the proposed implementation or	VERSION 3.0	SSP-3	↑	5	
As a team, I'd like to estimate the effort of a story in Story Points so we can understand the work remaining >> T	VERSION 3.0	SSP-4	↑	5	
As a team, I'd like to commit to a set of stories to be completed in a sprint (or iteration) >> Click "Create Sprint" then drag the f	SSP-5	↑	1		
As a scrum master, I'd like to break stories down into tasks we can track during the sprint >> Try creating a task by clicking the	SSP-6	↑	1		
As a developer, I'd like to update story status during the sprint >> Click the Active sprints link at the top right of the screen to g	SSP-9	↑	3		
As a product owner, I'd like to include bugs, tasks and other issue types in my backlog >> Bugs like this one will	VERSION 2.0	SSP-8	↑		

+ Create issue

Quickstart

# Creating a Sprint

The screenshot shows the Jira Backlog interface for a project named 'Sample Scrum Project'. The breadcrumb trail is 'Projects / Sample Scrum Project / SSP board'. The page title is 'Backlog'. There is a search bar and a user profile icon (MS). The filters are set to 'Only My Issues' and 'Recently Updated'. The backlog contains 10 issues. A 'Create sprint' button is highlighted in a yellow box. The issues are listed in a table with columns for version, sprint name, priority, and count.

VERSIONS	EPICS	Issue Description	Version	Sprint	Priority	Count
		As a product owner, I'd like to express work in terms of actual user problems, aka User Stories, and place them i	VERSION 2.0	SSP-2	High	2
		As a developer, I can update story and task status with drag and drop (click the triangle at far left of this s	VERSION 2.0	MS SSP-10	High	5
		As a developer, I'd like to update story status during the sprint >> Click the Active sprints link at the top right of the screen to g		SSP-9	High	3
		As a team, I'd like to estimate the effort of a story in Story Points so we can understand the work remaining >> T	VERSION 3.0	SSP-4	High	5
		As a team, I'd like to commit to a set of stories to be completed in a sprint (or iteration) >> Click "Create Sprint" then drag the f		SSP-5	High	1
		As a product owner, I'd like to rank stories in the backlog so I can communicate the proposed implementation or	VERSION 3.0	SSP-3	High	5
		As an Agile team, I'd like to learn about Scrum >> Click the "SSP-1" link at the left of this row to see detail in the	VERSION 2.0	SSP-1	High	2
		As a scrum master, I'd like to break stories down into tasks we can track during the sprint >> Try creating a task by clicking the		SSP-6	High	1
		As a product owner, I'd like to include bugs, tasks and other issue types in my backlog >> Bugs like this one will	VERSION 2.0	SSP-8	High	
		As a developer, I can update details on an item using the Detail View >> Click the "SSP-13" link at the top	VERSION 2.0	MS SSP-13	High	

+ Create issue

Quickstart

# Creating a Sprint

The screenshot shows the Jira 'Sample Scrum Project' with the 'SSP board' selected. The 'Backlog' section is active, showing 'Sample Sprint 2' with 0 issues. A 'Plan your sprint' instruction is displayed within the sprint area. Below the sprint, the main backlog lists 11 issues. A 'Quickstart' tooltip is visible over the bottom issue.

**Backlog** 11 issues

Issue	Version	MS	SSP	Estimate
As a developer, I can update story and task status with drag and drop (click the triangle at far left of this s	VERSION 2.0	MS	SSP-10	5
As a developer, I can update details on an item using the Detail View >> Click the "SSP-13" link at the top	VERSION 2.0	MS	SSP-13	1
As a user, I can find important items on the board by using the customisable "Quick Filters" above >> Try clicking the "Or	MS	SSP-14	3	
As an Agile team, I'd like to learn about Scrum >> Click the "SSP-1" link at the left of this row to see detail in the	VERSION			
As a product owner, I'd like to express work in terms of actual user problems, aka User Stories, and place them i	VERSION 2.0		SSP-2	2



# Creating a Sprint

Projects / Sample Scrum Project / SSP board

## Backlog

Search MS Only My Issues Recently Updated

Sample Sprint 2 7 issues

Start sprint Plan sprint

Issue	Version	Sprint	Priority
As a developer, I'd like to update story status during the sprint >> Click the Active sprints link at the top right of the screen to g		SSP-9	3
As a developer, I can update story and task status with drag and drop (click the triangle at far left of this s	VERSION 2.0	SSP-10	5
As a team, I'd like to estimate the effort of a story in Story Points so we can understand the work remaining >> T	VERSION 3.0	SSP-4	5
As a team, I'd like to commit to a set of stories to be completed in a sprint (or iteration) >> Click "Create Sprint" then drag the f		SSP-5	1
As a product owner, I'd like to rank stories in the backlog so I can communicate the proposed implementation or	VERSION 3.0	SSP-3	5
As an Agile team, I'd like to learn about Scrum >> Click the "SSP-1" link at the left of this row to see detail in the	VERSION 2.0	SSP-1	2
As a product owner, I'd like to express work in terms of actual user problems, aka User Stories, and place them i	VERSION 2.0	SSP-2	2

+ Create issue

7 issues Estimate 23

### Backlog 3 issues

Issue	Version	Sprint	Priority
As a scrum master, I'd like to break stories down into tasks we can track during the sprint >> Try creating a task by clicking the		SSP-6	1
As a product owner, I'd like to include bugs, tasks and other issue types in my backlog >> Bugs like this one will	VERSION		
As a developer, I can update details on an item using the Detail View >> Click the "SSP-13" link at the top	VERSION 2.0	SSP-13	

Quickstart

# Creating a Sprint (cont'd)

Projects / Sample Scrum Project / SSP board

## Backlog

Share ...

Search MS Only My Issues Recently Updated

Sample Sprint 2 7 issues

Start sprint Plan sprint ...

MS ...

As a developer, I'd like to update story status during the sprint >> Click the Active sprints link at the top right of the screen to g SSP-9 ↑ 3

As a developer, I can update story and task status with drag and drop (click the triangle at far left of this s VERSION 2.0 MS SSP-10 ↑ 5

As a team, I'd like to estimate the effort of a story in Story Points so we can understand the work remaining >> T VERSION 3.0 SSP-4 ↑ 5

As a team, I'd like to commit to a set of stories to be completed in a sprint (or iteration) >> Click "Create Sprint" then drag the f SSP-5 ↑ 1

As a product owner, I'd like to rank stories in the backlog so I can communicate the proposed implementation or VERSION 3.0 SSP-3 ↑ 5

As an Agile team, I'd like to learn about Scrum >> Click the "SSP-1" link at the left of this row to see detail in the VERSION 2.0 SSP-1 ↑ 2

As a product owner, I'd like to express work in terms of actual user problems, aka User Stories, and place them i VERSION 2.0 SSP-2 ↑ 2

+ Create issue

7 issues Estimate 23

## Backlog 3 issues

Create sprint ...

As a scrum master, I'd like to break stories down into tasks we can track during the sprint >> Try creating a task by clicking the SSP-6 ↑ 1

As a product owner, I'd like to include bugs, tasks and other issue types in my backlog >> Bugs like this one will VERSION SSP-13 ↑ 1

As a developer, I can update details on an item using the Detail View >> Click the "SSP-13" link at the top VERSION 2.0 MS SSP-13 ↑

Quickstart

# Creating a Sprint (cont'd)

Start sprint

7 issues will be included in this sprint.

Sprint name:  
Sample Sprint 2

Duration:  
1 week

Start date:  
21/Sep/20 01:24 PM

End date:  
28/Sep/20 01:24 PM

Sprint goal:  
Allow developers to update tasks; teams to learn about scrum, estimate story points for a story, and commit to a story set for a sprint; and product owners to write user stories & prioritise them.

Start Cancel

# Sprint Board

The screenshot displays the Jira Sprint Board interface for a project named 'Sample Scrum Project'. The top navigation bar includes links for 'Your work', 'Projects', 'Filters', 'Dashboards', and 'More', along with a search bar and user profile icons. The main header shows the breadcrumb 'Projects / Sample Scrum Project / SSP board' and the title 'Sample Sprint 2'. Below the title, there's a description: 'Allow developers to update tasks; teams to learn about scrum, estimate story points for a story, and commit to a story set for a sprint; and product owners...'. The board is organized into three columns: 'TO DO', 'IN PROGRESS', and 'DONE'. Under the 'TO DO' column, there are four story cards. The first card, 'SSP-9', has a description: 'As a developer, I'd like to update story status during the sprint >> Click the Active sprints link at the top right of the screen to go to the'. The second card, 'SSP-4', has a description: 'As a team, I'd like to estimate the effort of a story in Story Points so we can understand the work remaining >> Try setting the Story Points'. The third card, 'SSP-5', has a description: 'As a team, I'd like to commit to a set of stories to be completed in a sprint (or iteration) >> Click "Create Sprint" then drag the footer'. The fourth card has a description: 'As a product owner, I'd like to rank stories in the backlog so I can communicate the proposed implementation order >> Try'. A 'Quickstart' button is visible in the bottom right corner of the board area.

Projects / Sample Scrum Project / SSP board

## Sample Sprint 2

Allow developers to update tasks; teams to learn about scrum, estimate story points for a story, and commit to a story set for a sprint; and product owners...

Q Search MS

Only My Issues Recently Updated

TO DO IN PROGRESS DONE

Other Issues 6 issues

As a developer, I'd like to update story status during the sprint >> Click the Active sprints link at the top right of the screen to go to the

SSP-9

As a team, I'd like to estimate the effort of a story in Story Points so we can understand the work remaining >> Try setting the Story Points

SSP-4

As a team, I'd like to commit to a set of stories to be completed in a sprint (or iteration) >> Click "Create Sprint" then drag the footer

SSP-5

As a product owner, I'd like to rank stories in the backlog so I can communicate the proposed implementation order >> Try

Quickstart

# Story Details

Projects / Sample Scrum Project / SSP board

## Sample Sprint 2

Allow developers to update tasks; teams to learn about scrum, estimate story points for a story, and commit to a story set for a sprint; and product owners...

Search MS Only My Issues Recently Updated

TO DO IN PROGRESS DONE

Other Issues 6 issues

As a developer, I'd like to update story status during the sprint >> Click the Active sprints link at the top right of the screen to go to the

SSP-9

As a team, I'd like to estimate the effort of a story in Story Points so we can understand the work remaining >> Try setting the Story Points

SSP-4

As a team, I'd like to commit to a set of stories to be completed in a sprint (or iteration) >> Click "Create Sprint" then drag the footer

SSP-5

As a product owner, I'd like to rank stories in the backlog so I can communicate the proposed implementation order >> Try

Quickstart

# Story Details and Subtasks

The screenshot shows the Jira interface for a story titled "SSP-9". The top navigation bar includes "Your work", "Projects", "Filters", "Dashboards", and "More". A search bar and user profile "MS" are on the right. The story title "SSP-9" is at the top left of the main content area, with a "Give feedback" link and icons for eye, share, and close on the right. The story description is: "As a developer, I'd like to update story status during the sprint >> Click the Active sprints link at the top right of the screen to go to the Active sprints for status updates, so that others in the team are aware of the status". Below the description are buttons for "Attach", "Create subtask" (highlighted in yellow), "Link issue", and a dropdown menu. The "Description" section has a placeholder "Add a description...". The "Activity" section shows tabs for "Comments", "History", and "Work log", with "Comments" selected. A comment input field with a placeholder "Add a comment..." and a "Pro tip: press M to comment" is shown. On the right sidebar, there are sections for "To Do" (dropdown), "Assignee" (Unassigned), "Reporter" (Matt Sladescu), "Labels" (None), "Story Points" (3), "Sprint" (Sample Sprint 2), and "Priority" (Medium). A link "Show 5 more fields" is at the bottom of the sidebar. A "Quickstart" button is at the bottom right of the page.

SSP-9

Give feedback

As a developer, I'd like to update story status during the sprint >> Click the Active sprints link at the top right of the screen to go to the Active sprints for status updates, so that others in the team are aware of the status

Attach Create subtask Link issue

Description

Add a description...

Activity

Show: Comments History Work log

Add a comment...

Pro tip: press M to comment

To Do

Assignee

Unassigned

Reporter

Matt Sladescu

Labels

None

Story Points

3

Sprint

Sample Sprint 2

Priority

Medium

Show 5 more fields

Quickstart

# Story Details and Subtasks

The screenshot shows the Jira interface for a story titled 'SSP-9'. The main content area contains the story description: 'As a developer, I'd like to update story status during the sprint >> Click the Active sprints link at the top right of the screen to go to the Active sprints for status updates, so that others in the team are aware of the status'. Below the description is a 'Description' section with a placeholder 'Add a description...'. The 'Subtasks' section shows two subtasks: 'SSP-26 Subtask A' and 'SSP-27 Subtask B', with a progress bar indicating '0% Done'. The 'Activity' section shows tabs for 'Comments', 'History', and 'Work log'. On the right side, there are fields for 'Assignee' (Unassigned), 'Reporter' (Matt Sladescu), 'Labels' (None), 'Story Points' (3), 'Sprint' (Sample Sprint 2), and 'Priority' (Medium). A 'To Do' dropdown menu is also visible. The bottom of the screen shows a 'Quickstart' button and a 'Show 5 more fields' link.

SSP-9

Give feedback

To Do

Assignee: Unassigned

Reporter: Matt Sladescu

Labels: None

Story Points: 3

Sprint: Sample Sprint 2

Priority: Medium

Show 5 more fields

Subtasks

0% Done

SSP-26 Subtask A

SSP-27 Subtask B

Description

Add a description...

Activity

Show: Comments History Work log

work remaining >> Try setting the Story Points

SSP-4

Quickstart

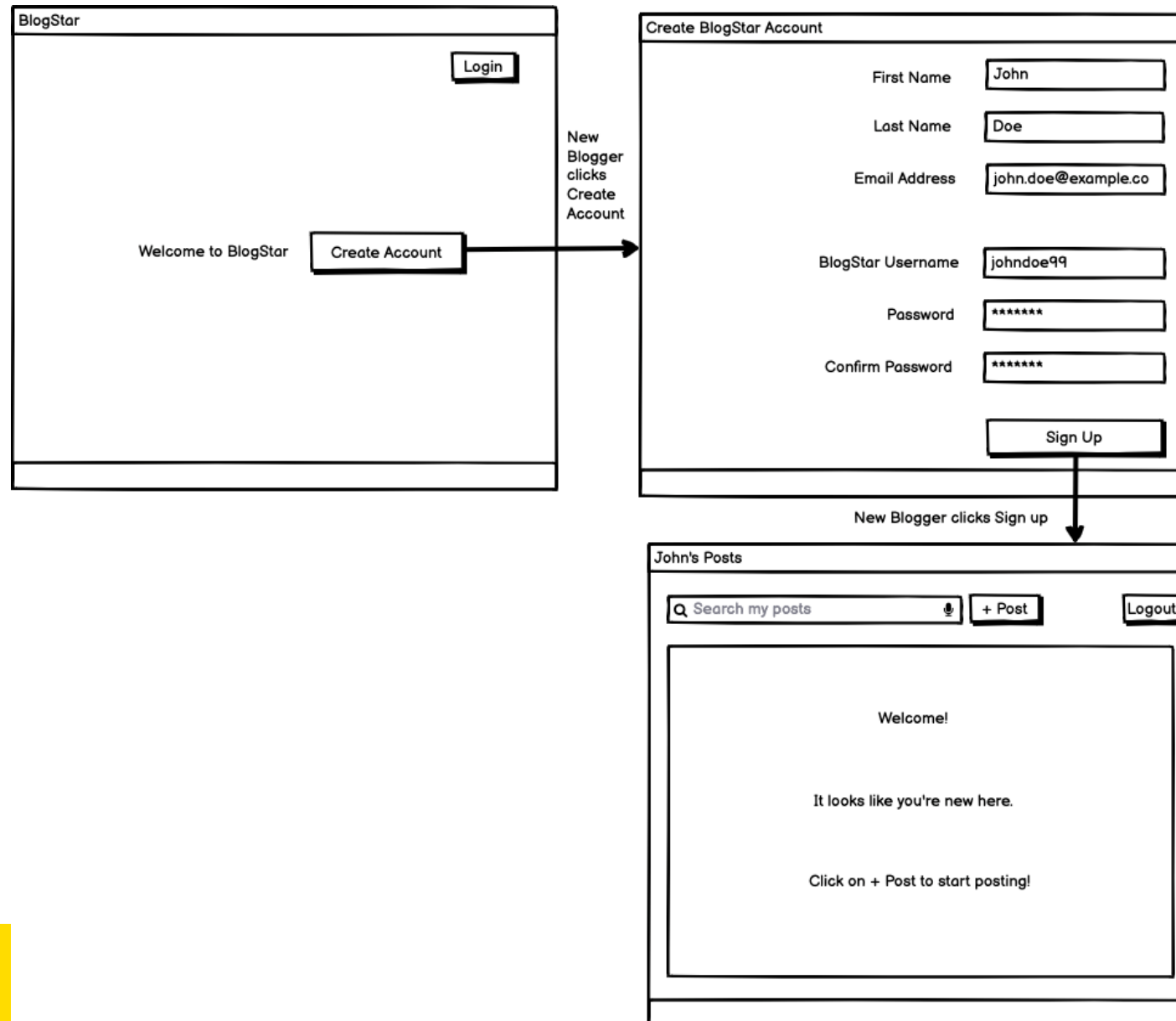
# Story Details and Subtasks

The screenshot displays a Jira interface for a Scrum project. At the top, a navigation bar includes 'Your work', 'Projects', 'Filters', 'Dashboards', and 'More'. A search bar and user profile icon are on the right. The main header shows the breadcrumb 'Projects / Sample Scrum Project / SSP board' and the title 'Sample Sprint 2'. Below the title, a description states: 'Allow developers to update tasks; teams to learn about scrum, estimate story points for a story, and commit to a story set for a sprint; and product owners...'. A status bar indicates '4 days remaining' and a 'Complete sprint' button. A filter bar shows 'Only My Issues' and 'Recently Updated'. The board has three columns: 'TO DO', 'IN PROGRESS', and 'DONE'. Story 'SSP-9' is in the 'TO DO' column and is expanded to show two subtasks: 'Subtask A' (SSP-26) and 'Subtask B' (SSP-27). Story 'SSP-10' is also in the 'TO DO' column. Below the board, a section titled 'Other Issues' shows a story 'SSP-4' with 5 story points. A 'Quickstart' button is located in the bottom right corner.

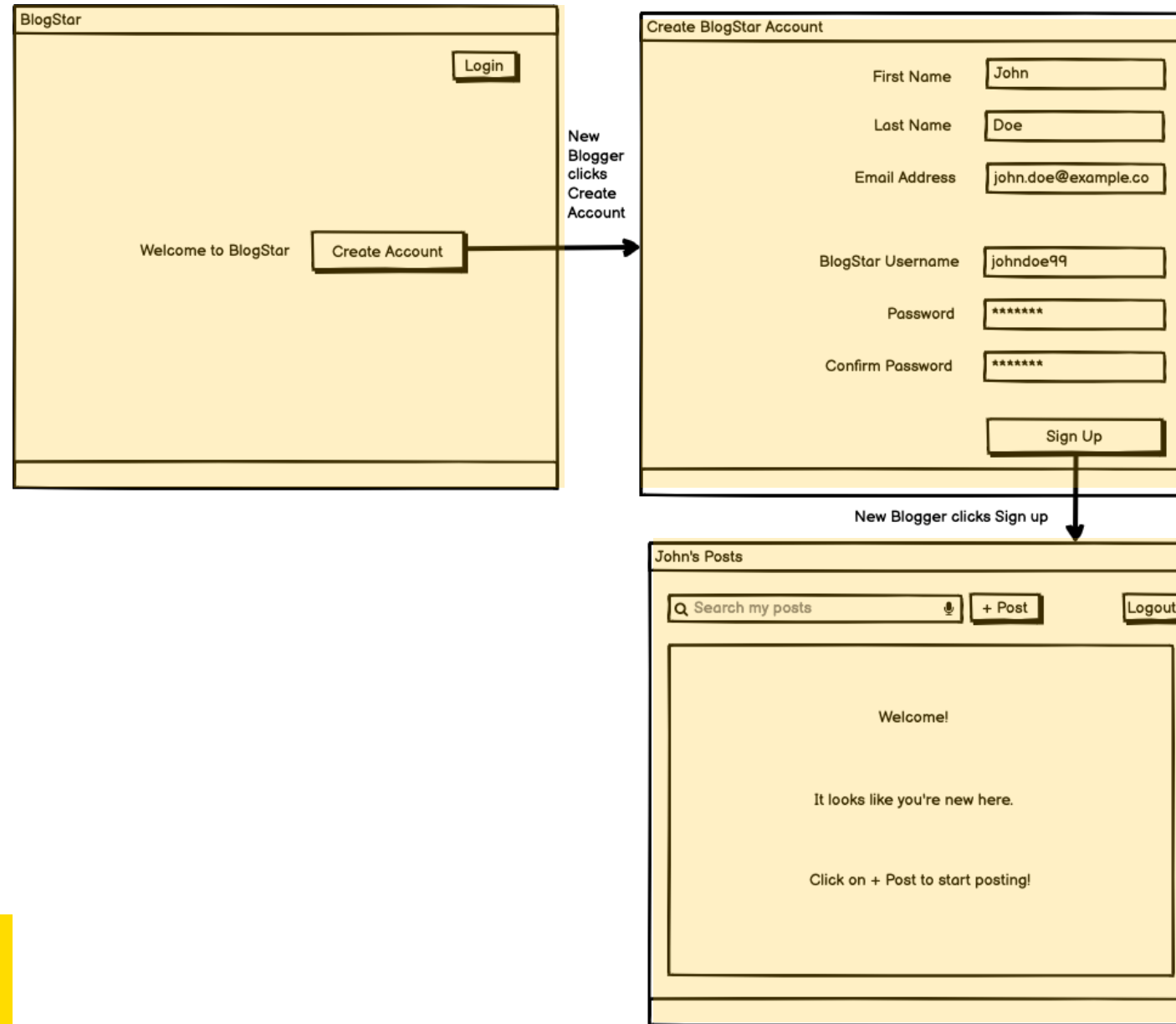


# **Interface and Flow Diagrams (Storyboards)**

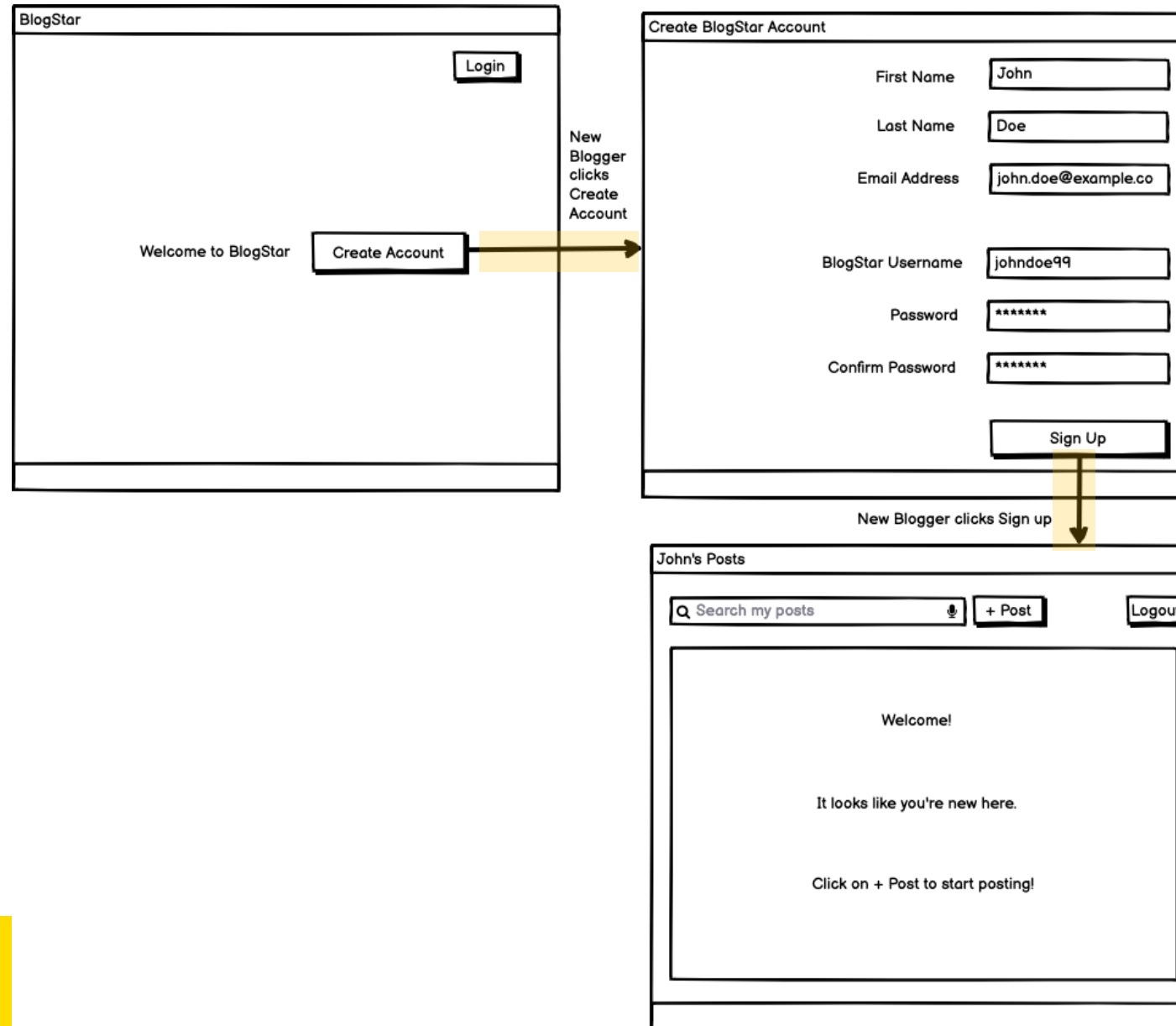
# Example 1



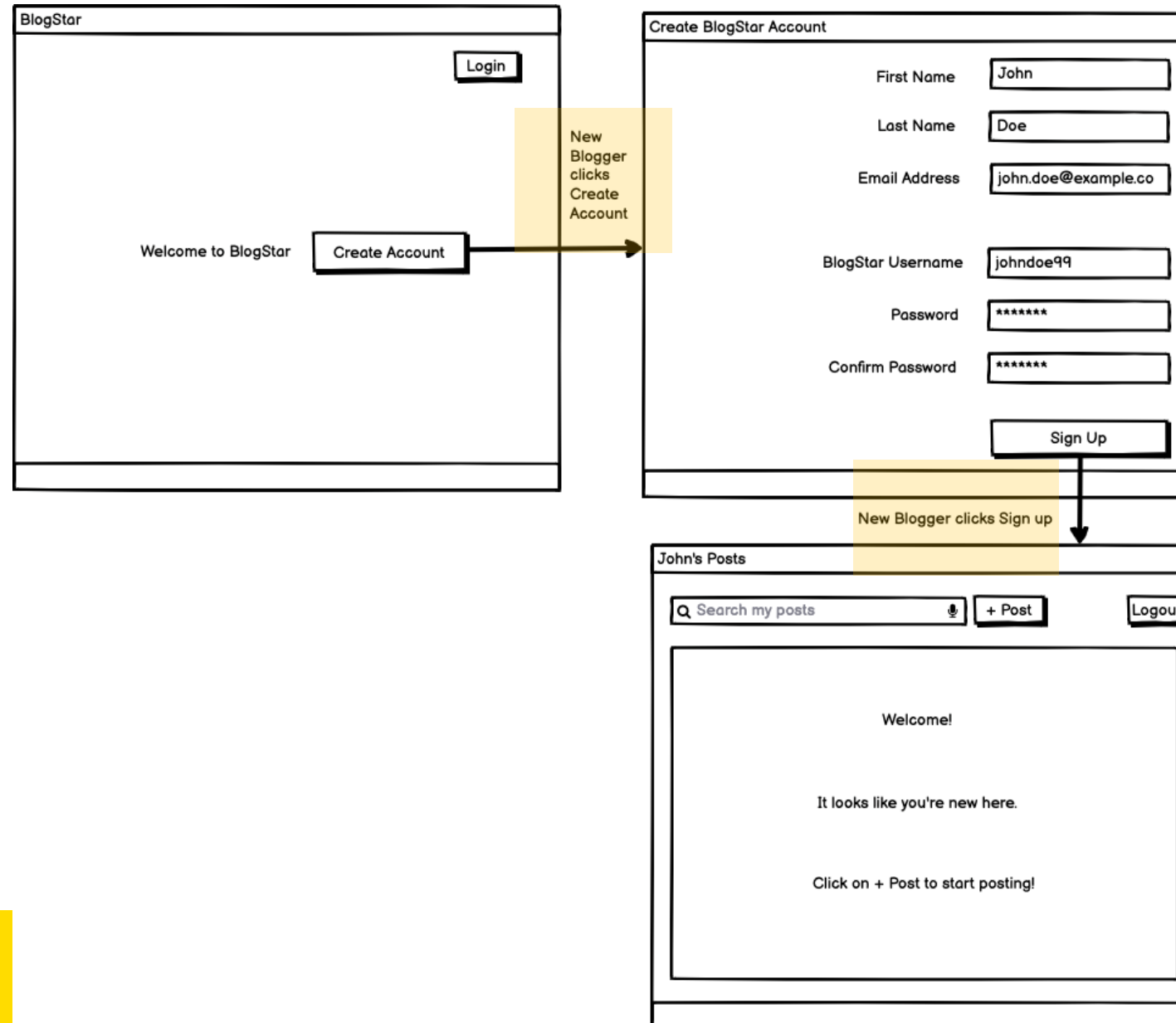
# Example 1 (cont'd)



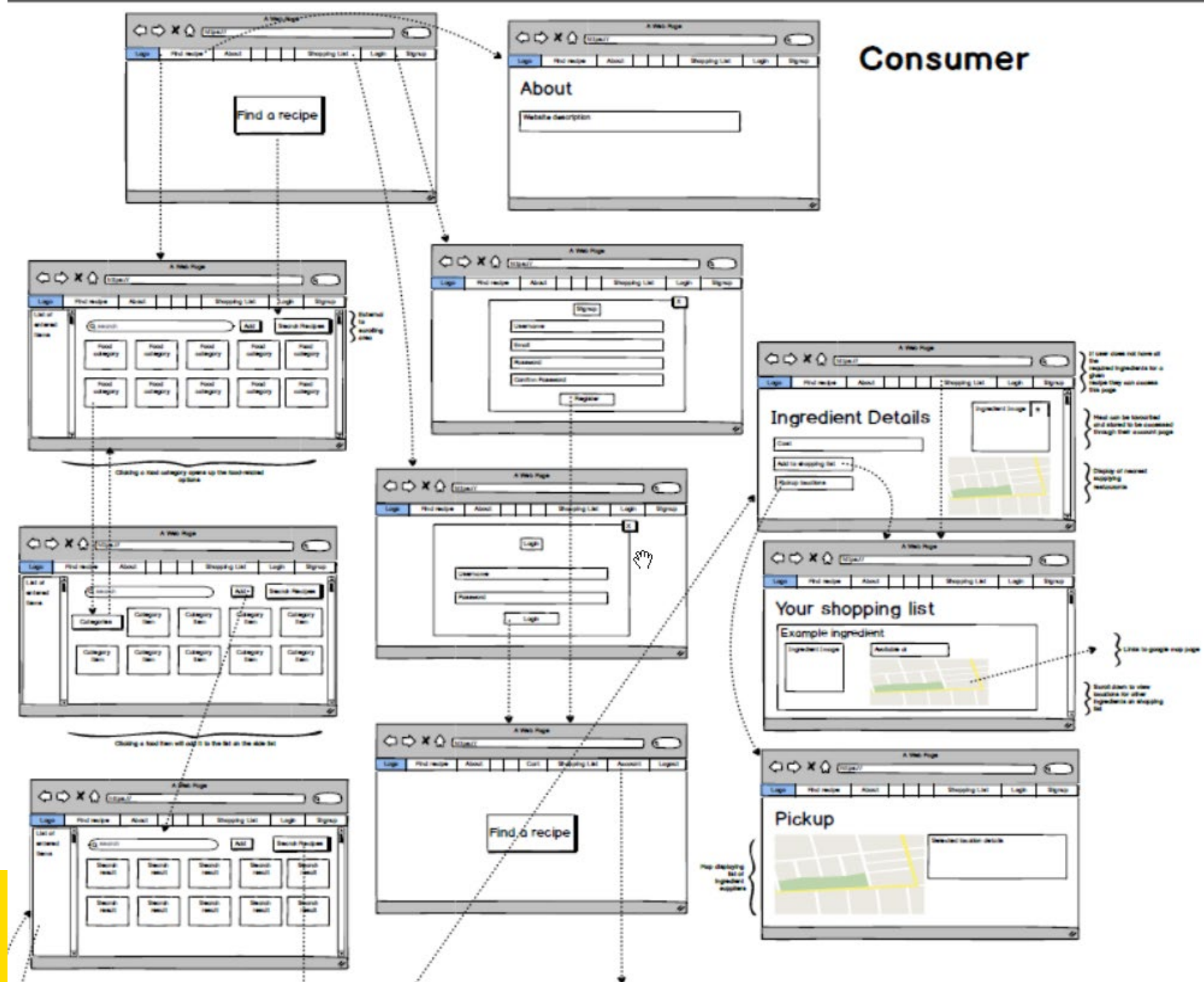
# Example 1 (cont'd)



# Example 1 (cont'd)



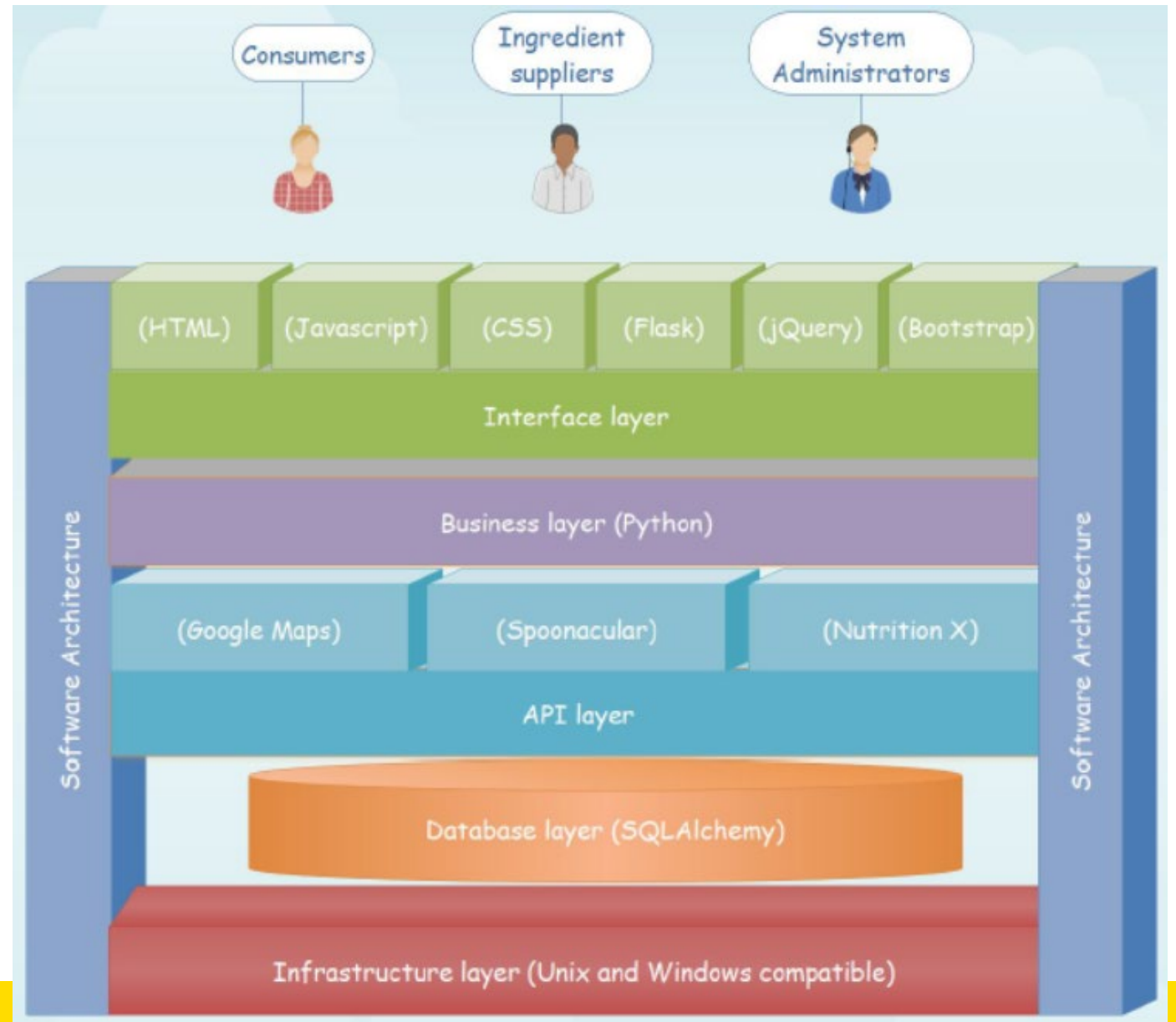
# Example 2



# **System Architecture**

# System Architecture Example

- Infrastructure layer
- Database layer
- API layer
- Business layer
- Interface layer



Useful Sources:

[https://en.wikipedia.org/wiki/Software\\_architecture](https://en.wikipedia.org/wiki/Software_architecture)

<https://codeburst.io/software-architecture-the-difference-between-architecture-and-design-7936abdd5830>

<https://www.synopsys.com/software-integrity/resources/knowledge-database/software-architecture.html>



# Week 2 Lab Tasks

# Week 2 Lab Tasks

- Make sure you are in a team of 5 (ideally) or 4 (if not possible)
- Your team has decided on a name, scrum master, team lead (could be same as scrum master), project, and created the team in Moodle
- Your team is signed up to Jira site and has invited the mentor as site-admin
- You accepted your invite and linked properly your zID with your GitHub account in the GitHub Organisation

# Week 2 Lab Tasks (cont'd)

- In GitHub, you have a team, a repository, a maintainer, and a folder/branch where individual work diaries are stored and updated regularly (at least once a week)
- You started working on the proposal and clarifying requirements with clients
- This is the starting point of getting your proposal ready by Week 3 Friday 29/09/23 @ 9pm

# Useful Links

- Figma

<http://www.figma.com>

- Balsamiq

<https://balsamiq.com>

- Release Burndown Chart

<https://www.mountangoatsoftware.com/agile/scrum/scrum-tools/release-burndown>

- Alternative Release Burndown Chart

<https://www.mountangoatsoftware.com/agile/scrum/scrum-tools/release-burndown/alternative>

Q & A