

# Scrum in Practice



## Sprint Planning Exercise






### Elements of Software Engineering and Information Systems

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# What we'll do

**25 minutes, in groups of 4-5**

1.  Read the backlog
2.  Assign roles
3.  Estimate and plan your sprint
4.  Simulate a Daily Scrum
5.  Debrief together

*No coding required. Just thinking and negotiating.*

# The Scenario

*You are a small data team at a startup.*

*A supermarket chain has hired you to build a customer analytics dashboard.*

*You have two weeks (one sprint) to deliver something working.*

# The Product

The dashboard should show:

-  Daily sales totals
-  Top-selling products
-  Customers inactive for 30+ days

# Step 1 – Assign Roles

 **2 minutes**

**Role**

**Responsibility**

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**Product Owner**

Priorities & business value

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**Scrum Master**

Facilitates, removes blockers

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**Dev Team (2-3)**

Estimates effort, plans work

 *Product Owner = the voice of the client, not necessarily the best coder*

# Step 2 – Your Product Backlog

 **5 minutes**

ID	User Story	Priority
US1	See daily sales on a chart	★★★ High
US2	See top 10 products by revenue	★★★ High
US3	Export report as PDF	★ Low
US4	Filter data by store location	★★ Medium
US5	See customers inactive 30+ days	★★★ High
US6	Dashboard loads in < 3 seconds	★★ Medium
US7	Login page with password	★ Low
US8	Automatic weekly email reports	★ Low

# Step 3 – Sprint Planning

 **10 minutes**

**Your team capacity:**

*3 developers × 8 days × 6 hours = 144 hours*

*1 story point ≈ 8 hours of work → ~18 points available*

## Estimation scale:

**Points**

**Effort**

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1

A few hours

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3

About one day

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5

Two days

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8

More than three days

# Step 3 – Estimate These Stories

User Story	Your estimate
US1 – Daily sales chart	? pts
US2 – Top 10 products	? pts
US4 – Filter by location	? pts
US5 – Inactive customers	? pts
US6 – Performance < 3s	? pts




 *Discuss as a team. No single person decides.*

*What fits in 18 points? What stays out?*

# Step 4 – Daily Scrum (Simulated)

 **5 minutes**

Each developer answers in **30 seconds**:

1.  What did I do **yesterday**?
2.  What will I do **today**?
3.  Any **blockers**?

*Keep it short. This is not a status report to the manager.  
It's the team synchronising with each other.*

# Step 5 – Group Debrief

 **5 minutes**

- Did all teams make the **same choices**? Why not?
- What happened when Product Owner and Dev Team **disagreed**?
- What if the client adds a **new requirement mid-sprint**?
- As data scientists – do you **recognise** this way of working?

# Key Takeaways

- ✓ Don't plan everything upfront – **deliver something working each sprint**
- ✓ The Product Owner represents **business value**, not technical decisions
- ✓ Estimates are **collective** – the team decides, not the manager
- ✓ Agile works best when **everyone communicates continuously**

# Scrum in One Slide

Product Backlog → Sprint Planning → Sprint (2–4 weeks)



Daily Scrum (15 min)



Sprint Review → Potentially Shippable Product



Sprint Retrospective



(next sprint...)

**See You Next Sprint** 🚀

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