ISYS 1106 /1108 SE Project Management
A2: Individual work (on-demand interview) – Scenario

The Product Backlog (as per the end of Sprint 0) is presented below. The team, Product Owner and Scrum Master agreed to the following Definitions of Done:

DoD1:

- Unit testing passed (code coverage 75%)
- Code peer reviewed
- Functional testing based on ACs passed
- Usability testing passed (Chrome 117.0)
- Regression testing passed
- Approved by the Product Owner

DoD2:

- Unit testing passed (code coverage 75%)
- Code peer reviewed
- Functional testing based on ACs passed
- Usability testing passed (Chrome 117.0, Safari 14.1.2, Mozilla Firefox 117.0)
- Regression testing passed
- Approved by the Product Owner

PBI ID	User Story	Owner	Priority	Efforts	Status	DoD
PBI_1	As a customer, I want to select between "TODAY" and "PRE-ORDER" options, so that I can choose the items accordingly	Hermione Granger	High	8	In Progress	DoD1
PBI_28	As a customer, I want to see the full range of breads and pastries produced by bread4U, so that I know what I can pre-order	Hermione Granger	High	5	In Progress	DoD1
PBI_2	As a customer, I want to see all currently sold-out items highlighted with a label "sold out today", so that know which items are unavailable today	Hermione Granger	High	8	To-Do	DoD1
PBI_8	As a customer, I want to see all currently available breads and pastries, so that I know what I can buy today	Hermione Granger	High	1	To-Do	DoD1
PBI_13	As a customer, I want to select whether the order will be picked up or delivered, so that I have flexibility or ordering	Hermione Granger	High	2	To-Do	DoD2
PBI_14	As a customer I want to select among available pick-up time slots, so that I have flexibility or ordering	Hermione Granger	High	2	To-Do	DoD1
PBI_15	As a customer I want to select among available delivery time slots, so that I have flexibility or ordering	Hermione Granger	High	2	To-Do	DoD1
PBI_16	As a customer I would like to select payment method (PayPal or credit card), so that I can click on the corresponding button	Hermione Granger	High	1	To-Do	DoD3

PBI_10	As a customer I want to add a menu item to my cart, so that I can by it	Hermione Granger	High	1	To-Do	DoD1
PBI_10	As a customer I want to remove an item from my cart, so that I can adjust my selection	Hermione Granger	High	1	To-Do	DoD1
PBI_5	As a customer I want to increase the quantity of an item in my cart, so that I can adjust my selection	Hermione Granger	High	1	To-Do	DoD1
PBI_6	As a customer I want to decrease the quantity of an item in my cart, so that I can adjust my selection	Hermione Granger	High	1	To-Do	DoD1
PBI_7	As a customer I want to change the sort of tea in my cart, so that I can adjust my selection	Hermione Granger	High	1	To-Do	DoD1
PBI_4	As a customer, I want to pay for my order with a credit card	Hermione Granger	High	3	To-Do	DoD3
PBI_3	As a customer, I want to pay for my order with PayPal	Hermione Granger	High	7	To-Do	DoD3
PBI_27	As a customer I want to get a confirmation on submitted order, so that I know for sure that my order was successfully submitted	Hermione Granger	High	1	To-Do	DoD1
PBI_11	As a user, I want to see a list of current requests, so that I can select my next order to work on	Draco Malfoy	High	5	To-Do	DoD2
PBI_12	As a staff member, I want to see details of a request, so that I know what exactly I need to prepare	Draco Malfoy	High	3	To-Do	DoD2
PBI_17	As a staff manager, I want to create staff member accounts, so that new staff members have access to our system	Draco Malfoy	High	5	To-Do	DoD2
PBI_16	As a staff manager, I want to manage accounts of staff members, so that information there is up-to-date	Draco Malfoy	Medium	5	To-Do	DoD2
PBI_18	As a staff member/ staff manager I want to login, so that I can use functionality of the system	Draco Malfoy	Medium	1	To-Do	DoD2
PBI_19	As a customer, I want to register in the system, so that I can login	Hermione Granger	Medium	2	To-Do	DoD1
PBI_20	As a customer I want to login so that I can use history and re-ordering functionalities	Hermione Granger	Low	1	To-Do	DoD1
PBI_21	As a customer, I want to see history of my orders, so that I can quickly re-order them	Hermione Granger	Low	13	To-Do	DoD1
PBI_22	As a customer, I want to re-order my previous order, so that I can save time on ordering	Hermione Granger	Low	8	To-Do	DoD1
PBI_23	As a customer, I want to login using Google / Facebook, so that I don't need to register	Hermione Granger	Low	8	To-Do	DoD1
PBI_25	As a customer, I want to post to my Instagram page on my recent order, so that I share this information with my friends	Hermione Granger	Low	3	To-Do	DoD1
PBI_24	As a customer, I want to post to my Facebook page on my recent order, so that I share this information with my friends	Product Owner	Low	3	To-Do	DoD1

Team Performance:

The team is working on a Scrum project in **fortnightly sprints**, the project is planned for **4 sprints**. The Sprint 1 has been started on **18 September**. In your analysis, please take into account that **Friday 29 September and Tuesday 7 November are public holidays** in Victoria.

For this task, you have to work with the product backlog as it is provided above (even when it contains some mistakes). However, **you need to take into account the following events of the scenario:**

- At the sprint planning meeting for Sprint 2, the Product Owner requested to add to the Product Backlog two low priority items: PBI 29 and PBI 30. The team and Scrum Master agreed to this change, the team estimated the efforts for them as 8 story points each.
- At the review meeting for Sprint 2, the Product Owner decided to remove PBI 24 and 25 from the Product Backlog (the team and Scrum Master agreed to this change as well).

The team had the following progress over Sprint 1 and Sprint 2:

	Monday	**Tuesday**	**Wednesday**	**Thursday**	**Friday**
Sprint 1, Week 1	Design tasks and implementation tasks for PBI 1 completed	Unit testing and code peer review for PBI 1 completed (passed)	All tasks for PBI 1 fully completed (including QA tasks)	Design tasks for PBI 28 completed	All tasks for PBI 28 fully completed (including QA tasks)
Sprint 1, Week 2	Design and Implementation tasks for PBI 2 completed, but regression testing revealed issues in PBI 28	All tasks for PBI 2 fully completed (including QA tasks), PBI 28 fixed and re-tested as per DoD	All tasks for PBI 8 fully completed (including QA tasks)	All tasks for PBI 13 fully completed (including QA tasks)	Public holiday
Sprint 2, Week 1	All tasks for PBI 14 fully completed (including QA tasks)	All tasks for PBI 15 fully completed (including QA tasks)	All tasks for PBI 16 fully completed (including QA tasks)	All tasks for PBI 5 fully completed (including QA tasks)	All tasks for PBI 6 fully completed (including QA tasks)
Sprint 2, Week 2	All tasks for PBI 7 fully completed (including QA tasks)	Design and Implementation tasks for PBI 4 completed	Unit testing and code peer review for PBI 4 completed (passed)	All tasks for PBI 4 fully completed (including QA tasks)	Design and Implementation tasks for PBI 3 completed

Interview tasks for the video on burn-down chart:

You need to create the corresponding **classical burndown chart** for the project (**as it should be at the very end of Sprint 2, after the Sprint review meeting**) and record video, where you need to present it. In the presentation, you need to cover the following points:

- Explain how you created the ideal burndown – how you decided what should be its top point, how you calculated the number of working days in the project and the ideal daily velocity, how/whether the decisions announced by the Product Owner on Sprint 2 Planning and Review meetings influenced your calculations.
- Explain how your real burndown was evolving day by day over the duration of sprints.
- Analyse the chances of the team to complete the project successfully, if they continue with the same real velocity and capacity as they have at the end of Sprint 2.

Please note that the video should contain both, screen capture and camera capture of you, for the whole duration of presentation.

Quality Assurance:

The team decided to have general sprint task approach to save time on specification of development tasks, as all team members agreed to have relatively small user stories.
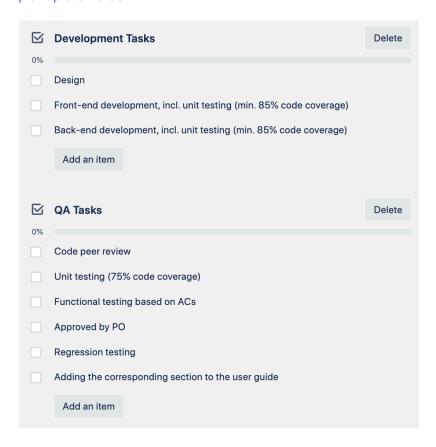The below screenshot of a part of a Trello card, presenting sprint tasks they specified.

When preparing to the Sprint 1 planning meeting, the team also created Acceptance Criteria (ACs) for a number of PBIs. The ACs for
PBI 10. As a customer, I want to select whether the order will be picked up or delivered, so that I have flexibility or ordering.
have been specified as follows:
AC11.1
Given the customer is on the cart page of the Web application **and** the cart isn't empty,
When the customer clicks the radio-button labelled "I will pick up my order",
Then the delivery option for this order will be stored as "pickup" **and** the application will present to the customer a screen "Select time for your pick up" with options to select date and time to pick up their order.

☑ **Development Tasks**   Delete

0%

☐ Design

☐ Front-end development, incl. unit testing (min. 85% code coverage)

☐ Back-end development, incl. unit testing (min. 85% code coverage)

Add an item

☑ **QA Tasks**   Delete

0%

☐ Code peer review

☐ Unit testing (75% code coverage)

☐ Functional testing based on ACs

☐ Approved by PO

☐ Regression testing

☐ Adding the corresponding section to the user guide

Add an item

Interview tasks for the video on QA analysis:
1. You need to analyse the sprint tasks, explain what issues you identified and how you will fix them.
2. You need to analyse the specified Acceptance criteria, explain what issues you identified and how you will fix them.

Please note that the video should contain both, screen capture and camera capture of you, for the whole duration of presentation.

Product backlog analysis:

Interview tasks for the video on PB analysis:
You need to analyse the provided product backlog with respect to the ***Notes made during the initial requirements elicitation interviews*** (provided to you in Assignment 1, Week 4 WPC):

- Analyse
    - PBI priorities,
    - user stories,
    - PBI statuses,
    - PBI owners,
    - efforts, as well as in
    - the DoD column,

    and explain what issues you identified (and how exactly you will fix them) there.

- Analyse PBI IDs and sorting of the provided product backlog, explain whether you identified any issues there (and how exactly you will fix the issues if you identified them).

Please note that the video should contain both, screen capture and camera capture of you, for the whole duration of presentation.