

## Product Backlog and Sprint Plan

A product backlog is a list of features or tasks that need to be done to deliver a valuable product to the customer. It is prioritized by the product owner based on the business value, user needs, and technical feasibility of each feature.

Here is a possible product backlog for your system, using the MoSCoW method to prioritize the features:

Feature	Description	Priority
User registration	Provide a way to register user data, such as name, email, password, role (consumer or producer), and preferences.	Must have
User authentication	Provide a way to verify the identity of the user and grant access to the system.	Must have
User profile	Provide a way to view and edit the user data and preferences.	Must have
Service declaration	Provide a way for a producer to declare offered services, such as name, description, duration, price, and availability.	Must have
Service browsing	Provide a way for a consumer to look for available services, using filters, categories, and keywords.	Must have
Event creation	Provide a way for a producer to create new events, either public or private, based on the offered services and the availability.	Must have
Event booking	Provide a way for a consumer to book an event, either public or private, based on the available services and the time slots.	Must have
Event cancellation	Provide a way for a producer or a consumer to cancel an event or a booking, with a notification to the other party.	Must have
Event payment	Provide a way for a consumer to pay for an attended event, using a secure payment method.	Must have
Event notification	Provide a way to send consumers notifications about booked events, such as reminders, confirmations, or cancellations.	Should have
Event message	Provide a way for a producer to create notifications about an event, such as broadcast messages, updates, or feedback requests.	Should have
Event survey	Provide a way to collect surveys about completed events, such as ratings, reviews, or suggestions.	Should have
Data analytics	Provide a way to provide data analytics obtained by the system to producers, such as number of bookings, revenue, customer satisfaction, or trends.	Could have
Web interface	Provide a web application interface to use the system, using a responsive and user-friendly design.	Must have
Mobile interface	Provide a mobile application interface to use the system, using a native or hybrid approach.	Could have

Here is a possible sprint plan for your system, using the Scrum framework and assuming a team of 5 people and a sprint length of 4 weeks:

Sprint	Goal	Features	Estimated effort
1	To enable users to register, authenticate, and manage their profiles.	User registration, User authentication, User profile, Web interface (for these features)	80 hours
2	To enable producers to declare and create events, and consumers to browse and book events.	Service declaration, Service browsing, Event creation, Event booking, Web interface (for these features)	120 hours
3	To enable users to cancel, pay, and receive notifications for events.	Event cancellation, Event payment, Event notification, Event message, Web interface (for these features)	100 hours

More in detail, here is a possible example of the product backlog divided into 3 sprints:

- Sprint 1: The goals of this sprint is to enable users to register, authenticate, and manage their profiles. The product backlog items for this sprint are:
  - As a user, I want to register into the system using name, email, password, role (consumer or producer), and preferences, so that I can access the system easily and securely.
  - As a user, I want to authenticate into the system, so that I have access to the system.
  - As a user, I want to view and edit the user data and preferences, so that I can update my personal information.
  - As a user, I want to see a modern and responsive web design, so that I can use the system on any device and browser.
- Sprint 2: The goals of this sprint is to enable producers to declare and create events, and consumers to browse and book events. The product backlog items for this sprint are:
  - As a producer, I want to declare offered services, so that I satisfy customers by providing them with valuable solutions that meet their needs and preferences.
  - As a consumer, I want to look for available services, using filters, categories, and keywords, so that I can find and book the best solution that meets my needs and preferences.
  - As a producer, I want to create new events, either public or private, based on the offered services and the availability, so that I can generate more revenue and customer loyalty by offering diverse and customized solutions that cater to different needs and preferences.
  - As a consumer, I want to book an event, either public or private, based on the available services and the time slots, so that I can secure my spot and enjoy the benefits of the service I'm interested in.
- Sprint 3: The goals of this sprint is to enable users to cancel, pay, and receive notifications for users. The product backlog items for this sprint are:
  - As a producer or a consumer, I want to cancel an event or a booking, with a notification to the other party, so that I can reschedule or reorganize the event or booking, due to changes in availability, demand, or preferences.
  - As a consumer, I want to pay for an attended event, using a secure payment method, so that I can pay easily and securely.

- As a producer, I want to send consumers notifications about booked events, such as reminders, confirmation, or cancellations, so that I can enhance customer satisfaction by providing timely and relevant information that helps them prepare for and enjoy the event.
- As a producer, I want to create notifications about an event, such as broadcast messages, updates, or feedback requests, so that I can increase customer engagement by providing them with valuable and relevant information that enhances their event experience.

The specific product backlog items that the Scrum team will work on in the next sprint are agreed to at spring planning, which occurs at the beginning of each sprint. During this activity, the team generates a spring backlog: a description of the task-level work that has to be completed to get the product backlog items done (see Figure 1).

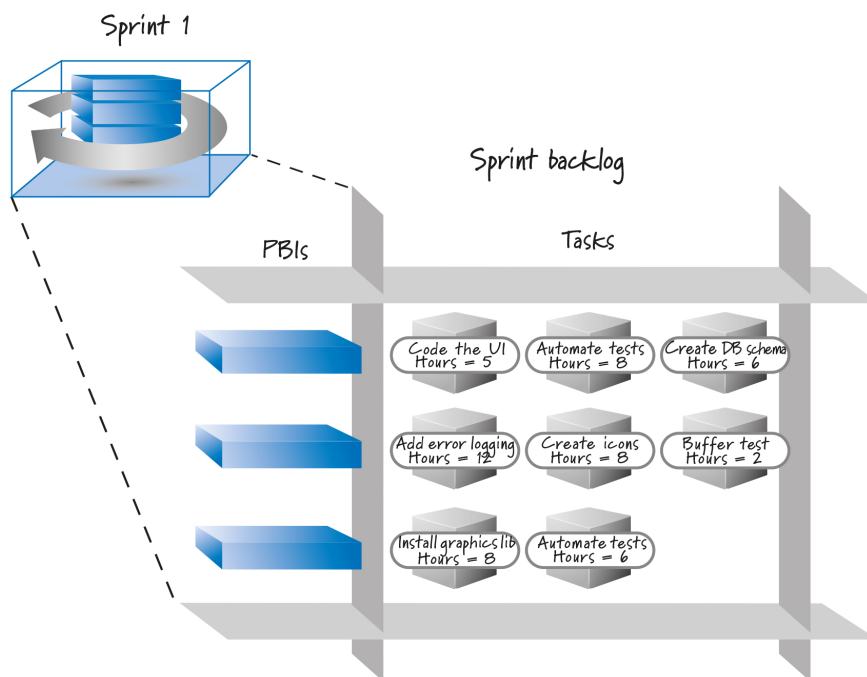


Figure 1: Each sprint has a sprint backlog

A sprint backlog is a list of tasks that the team commits to complete in a sprint. Each task is derived from a feature or user story in the sprint plan, and has a clear definition of done, an owner, and an estimated effort. The team updates the sprint backlog daily to track the progress and status of each task.

Here is a possible sprint backlog for each sprint, based on the features and estimated effort in the sprint plan:

Sprint	Feature	Task	Definition of done	Owner	Estimated effort
1	User registration	Design the user registration form	The form has fields for name, email, password, role, and preferences, and validates the input	UI designer	8 hours
1	User registration	Implement the user registration logic	The logic checks the input, encrypts the password, and stores the user data in the database	Programmer	16 hours
1	User registration	Test the user registration functionality	The functionality works as expected, with no errors or bugs	Tester	8 hours
1	User authentication	Design the user login page	The page has fields for email and password, and a button to login	UI designer	4 hours
1	User authentication	Implement the user authentication logic	The logic verifies the email and password, and grants access to the system	Programmer	8 hours
1	User authentication	Test the user authentication functionality	The functionality works as expected, with no errors or bugs	Tester	4 hours
1	User profile	Design the user profile page	The page shows the user data and preferences, and has buttons to edit or delete them	UI designer	8 hours
1	User profile	Implement the user profile logic	The logic retrieves, updates, or deletes the user data and preferences from the database	Programmer	16 hours
1	User profile	Test the user profile functionality	The functionality works as expected, with no errors or bugs	Tester	8 hours
1	Web interface	Integrate the user registration, authentication, and profile pages	The pages are linked and consistent with the web design standards	UI designer	8 hours
2	Service declaration	Design the service declaration form	The form has fields for name, description, duration, price, and availability, and validates the input	UI designer	8 hours

Sprint	Feature	Task	Definition of done	Owner	Estimated effort
2	Service declaration	Implement the service declaration logic	The logic checks the input and stores the service data in the database	Programmer	16 hours
2	Service declaration	Test the service declaration functionality	The functionality works as expected, with no errors or bugs	Tester	8 hours
2	Service browsing	Design the service browsing page	The page shows the available services, with filters, categories, and keywords	UI designer	8 hours
2	Service browsing	Implement the service browsing logic	The logic retrieves the service data from the database and applies the filters, categories, and keywords	Programmer	16 hours
2	Service browsing	Test the service browsing functionality	The functionality works as expected, with no errors or bugs	Tester	8 hours
2	Event creation	Design the event creation form	The form has fields for service, date, time, type, and capacity, and validates the input	UI designer	8 hours
2	Event creation	Implement the event creation logic	The logic checks the input and stores the event data in the database	Programmer	16 hours
2	Event creation	Test the event creation functionality	The functionality works as expected, with no errors or bugs	Tester	8 hours
2	Event booking	Design the event booking page	The page shows the details of the event, and has a button to book it	UI designer	4 hours
2	Event booking	Implement the event booking logic	The logic verifies the availability and stores the booking data in the database	Programmer	8 hours
2	Event booking	Test the event booking functionality	The functionality works as expected, with no errors or bugs	Tester	4 hours

Sprint	Feature	Task	Definition of done	Owner	Estimated effort
2	Web interface	Integrate the service declaration, browsing, creation, and booking pages	The pages are linked and consistent with the web design standards	UI designer	8 hours
3	Event cancellation	Design the event cancellation page	The page shows the details of the event, and has a button to cancel it	UI designer	4 hours
3	Event cancellation	Implement the event cancellation logic	The logic deletes the event or booking data from the database, and sends a notification to the other party	Programmer	8 hours
3	Event cancellation	Test the event cancellation functionality	The functionality works as expected, with no errors or bugs	Tester	4 hours
3	Event payment	Design the event payment page	The page shows the details of the event, and has a button to pay for it	UI designer	4 hours
3	Event payment	Implement the event payment logic	The logic verifies the attendance and processes the payment using a secure method	Programmer	8 hours
3	Event payment	Test the event payment functionality	The functionality works as expected, with no errors or bugs	Tester	4 hours
3	Event notification	Design the event notification page	The page shows the notifications about booked events, such as reminders, confirmations, or cancellations	UI designer	4 hours
3	Event notification	Implement the event notification logic	The logic sends and receives notifications about booked events, using email or SMS	Programmer	8 hours
3	Event notification	Test the event notification functionality	The functionality works as expected, with no errors or bugs	Tester	4 hours

<b>Sprint</b>	<b>Feature</b>	<b>Task</b>	<b>Definition of done</b>	<b>Owner</b>	<b>Estimated effort</b>
3	Event message	Design the event message page	The page shows the messages about an event, such as broadcast messages, updates, or feedback requests	UI designer	4 hours
3	Event message	Implement the event message logic	The logic sends and receives messages about an event, using email or SMS	Programmer	8 hours
3	Event message	Test the event message functionality	The functionality works as expected, with no errors or bugs	Tester	4 hours
3	Web interface	Integrate the event cancellation, payment, notification, and message pages	The pages are linked and consistent with the web design standards	UI designer	8 hours