**HOMEWORK WEEK 5-6**

**Task 1**

**QUESTION 1**

SCRUM CEREMONIES

**Product backlog refinement -**This is a process when the Product Owner and Development Team identify the final product and what will it do, how long it will take to implement it and it is a time when everyone gets a clear task to do.

**Sprint planning** – Scrum Master, Scrum Product Manager and the Team decide on which backlogs will be tackled during the following sprint. The following sprint is planned so everyone in the team knows what are the goals and what they need to focus on.

**Daily scrum –** It is a short meeting where the team with their scrum master are reviewing the work done today and making sure the goal for the next day of work is set.

**Sprint review** – It is a meeting of the Scrum Master, Product Owner and Development Team at the end of the sprint when the completed job is celebrated.

**Sprint retrospective**- It is a meeting at the end of each sprint when the team reviews the outcomes. They are discussing what went well, how the work impacts the next print and what could be improved.

SCRUM ROLES

**Scrum Master –** A Scrum Master is a person that is responsible for the Scrum team’s success and makes sure that the scrum principles are followed.

**Product Owner –** A Product Owner is a person that is responsible for increasing the value of the products made by a development team. The Product Owner creates a product roadmap which shows a vision of the development plan for the product. It is a guild for stakeholders to reference as well as a plan for the team to execute.

**Development Team -** All members of the team that are responsible for building the actual product and meeting the sprint goal.

**QUESTION 2**

**PART 1**

1. All available classes on the given day are shown on the app.
2. Users can check classes for the whole week (in chronological order)
3. Users should be able to click on the name of the class to see more details.
4. Users should be able to click the button to book a lesson.
5. The user should write first name, last name, email, phone number and card details to confirm the booking.
6. The confirmation email should be sent to the user with the booking reference number and all details about the class.
7. After completing the booking, all the booking details should be stored on a SQL database which is connected to the booking system.

**PART 2**

Team can work in parallel using placeholders and hardcoded values for user stories. They can also work on the design.

In the same time, the design for the email can be created. Also, the backend team should work on the database which will hold information about the data, time, number of participants, type of lessons, participant details and card details.

The frontend team should make sure that the design of the website is finished, and it looks as close as possible to the initial design.

Once, everything is done, testing is the last part that the team needs to do to make sure the system works.

**TASK 2**

**Question 1.**

**Key requirements**

1. Users can choose the nearest branch out of all the cinemas in the country.
2. Users can see all movies available in the nearest cinema for the next three weeks.
3. Users can book seats as well as pre-book them.
4. Users can search for movies in the search bar.
5. Users can watch a trailer of the movie in the info section.
6. They are able to pay with a card, PayPal and ApplePay.
7. Users can get a refund if they ask for it at least a day before.

**Main considerations**

1. The website needs to be constantly updated with new movies and cinemas.
2. It should be easy to pay for the tickets. Seats can be reserved for just 15 minutes before the payment.
3. It should be easy to use and users should be able to buy tickets without creating an account. All information about the show will be sent on the email.

**Common and biggest problems.**

1. Users may want to buy a ticket for the show in advance for more than 3 weeks.
2. Seats that are selected ( but not paid yet ) should not appear as available for other users. That can cause the problem that two people will have the same seat.
3. Users cannot book two different movies that are shown at the same time.

**Tools and components**

1. Backend: Python
2. Frontend: HTML, CSS, JavaScript.
3. Database with all information about bookings.
4. Connection to the movies API that can display information about each movie.