

Professional Practice

Meeting with Kristian Putman – Freelance Programmer

Meeting started at 12:00 PM, 08/05/2024.

Attendees:

- Richard Casey
- Kristian Putman

Meeting Duration: 1 hour and 36 minutes

Meeting Minutes:

Review of Previous Meeting and Progress Update:

- The meeting began at 12:00 PM with a review of the previous meeting held on 02/05/2024.
- I provided an update on my progress since the last meeting, highlighting that I have successfully simulated a salted hash and a JWT token in Unity.
- I mentioned that I had spent approximately 16 hours and 45 minutes testing and finalising the scripts.

Script Review:

- I presented the scripts LoginManager.cs and JwtTokenGenerator.cs for review.
- Kristian reviewed the LoginManager.cs script, which handles user input and password hashing:
- He complimented the structure and readability of the code, noting that it was well-organised and easy to follow.
- Kristian particularly appreciated the method HashPassword, explaining that using SHA256 for hashing was a good choice, though he suggested improving the salt implementation by generating a unique salt for each user.
- We discussed replacing the placeholder salt "Random_Salt_TBC_When_I_Remember" with a more secure approach.

In the JwtTokenGenerator.cs script, which generates the JWT token:

- Kristian praised the clear and logical flow of the GenerateJwtToken method, highlighting the correct use of claims and token expiration.
- He emphasised the importance of keeping the SecretKey confidential and suggested using environment variables or a secure vault for storing sensitive keys.

Next Steps: Implementing on a Live Database:

- We discussed the next phase of the project: moving from simulation to implementation on a live database.
- Kristian guided me on how to approach this task, explaining the basics of database integration and the necessary steps to get started.
- He recommended using free databases like MongoDB Atlas, Firebase, or Azure Cosmos DB for testing purposes, each offering free tiers suitable for development and testing.
- We talked about the importance of secure database connections and handling sensitive data with care, especially when dealing with user credentials and tokens.
- Kristian suggested looking into ORM (Object-Relational Mapping) tools to simplify database operations and improve code maintainability.

Encouragement and Future Guidance:

- Throughout the meeting, Kristian was supportive and encouraging, expressing confidence in my ability to successfully transition to working with a live database.
- He provided a few additional resources and tutorials to help with the database integration process.
- Kristian reminded me to reach out if I encountered any issues, reiterating his availability for guidance and support.

Confirmation of Next Meeting:

The next meeting was scheduled for Wednesday, 15th May at 11:45 AM.

Meeting adjourned at 1:36 PM.