# Unit 6 - Seminar 3 Preparation

Software testing is undoubtfully one of the most important pillars of software development. Without testing, most programmes and applications would be buggy and insecure. There are multiple testing techniques including Specification-based, Structure-based, and Experience-based (Firdaus et al, 2014).

## Experience-based testing techniques

This testing technique is based on the tester's experience gained through prior testing and coding activities (ProfessionalQA, 2019). Testing based on experience with no proper strategies or documentation can bring unreliable results, however, in a few cases, it is required. These cases include (ProfessionalQA, 2019):

- Unavailability of coding specifications and requirements.
- Limited knowledge of the programme.
- Restricted amount of time for testing.

In general, the experience-based testing technique along with proper specifications and documentation provides a vast number of benefits (ProfessionalQA, 2019). These are:

- Error detection. Prior experience can help a software developer to spot and correct errors faster and easier.
- Checklist-based testing. A software professional creates a checklist based on prior developed products with all the testing activities that need to be performed.
- Exploratory testing. This testing technique is best used when there are not enough specifications and requirements to support the testing. The software professional studies the specifications of the programme at the same time as it runs and applies his skills and knowledge to his strategy and testing activities.

References:

ProfessionalQA (2019) Experience Based Testing Available from: https://www.professionalqa.com/experience-based-testing [Accessed 08 June 2021].

Arbain, Adila & Ghani, Imran & Jeong, Seung Ryul. (2014). Secure Feature Driven Development (SFDD) Model for Secure Software Development. Procedia - Social and Behavioral Sciences. 129. 546-553. 10.1016/j.sbspro.2014.03.712.