Lancaster University Leipzig

LZPMPC005M - Programming Clinic - Week I In the Clinic

This document provides you with the group partitioning, the tools, the insights on the weekly slides, and the programming languages for the first four weeks of projects.

1 Project description and Tools

Your first week in the clinic will focus on functional programming and delivering Django Rest APIs.

- **Scenario**: Book Inventory Management
- **Suggested Programming Languages**: `Python`
- **Programming Frameworks**: `Django`, `Django REST`

2 Weekly Slide Presentation

Presentation time: 15 minutes

Every week, I will present you with a specific business/logical problem, and you will need to determine the type of problem, the tools, and how to solve it through conversation with me.

Important Note!!

No explicit technical task will be given.

After you receive the project, we will discuss it in class for a few minutes. In next week's class, you will present your solution, and I will provide you with feedback.

Your weekly slide presentation should at least contain the following:

- **Introduction**: It should provide an overview of their understanding of the problem
- **Solution Overview**: A high-level description of their solution, including showcasing their various UML diagrams (Use case diagram, Sequence Diagrams, and Class Diagram)
- **Live Demo**: A short demonstration of their implemented solution; this could be a live demo or a pre-recorded video
- **Challenges and Lessons Learned**: A discussion of any challenges faced and what they learned in the process

After your presentation, I will generally provide you will an immediate feedback on

- the effectiveness of your solution
- the presentation quality
- possible improvements
- alternative approaches

3 Group partitioning

The class is divided into three groups, each containing two to three students. Students are allocated randomly to each group. The following group has been generated using random sampling without replacement of size two. The one student left is affected in the last sample. The code can be found in the course material.

Note that each group has a group leader. The group leader will lead the team for four weeks, and his/her responsibilities are:

- Organise a meeting to discuss the project
- Allocate tasks to different team members
- Create GitHub repositories and add members (note that you can allocate tasks on Git as well)
- Collect and Present the outcome in the form of slides
- Report to the lecturer in case a member does not contribute or does not hangdle the allocated tasks on time
- Responsible of delivering the software product despite missing tasks

Group 1

- Abdellah Sabhi (Group Leader)
- Bialylew Laurent

Group 2

- Xie Wenhao (Group Leader)
- Uesaka Mario

Group 3

- Karbukov Daniil (Group Leader)
- Liao Ruochen
- Jalal Mamadov