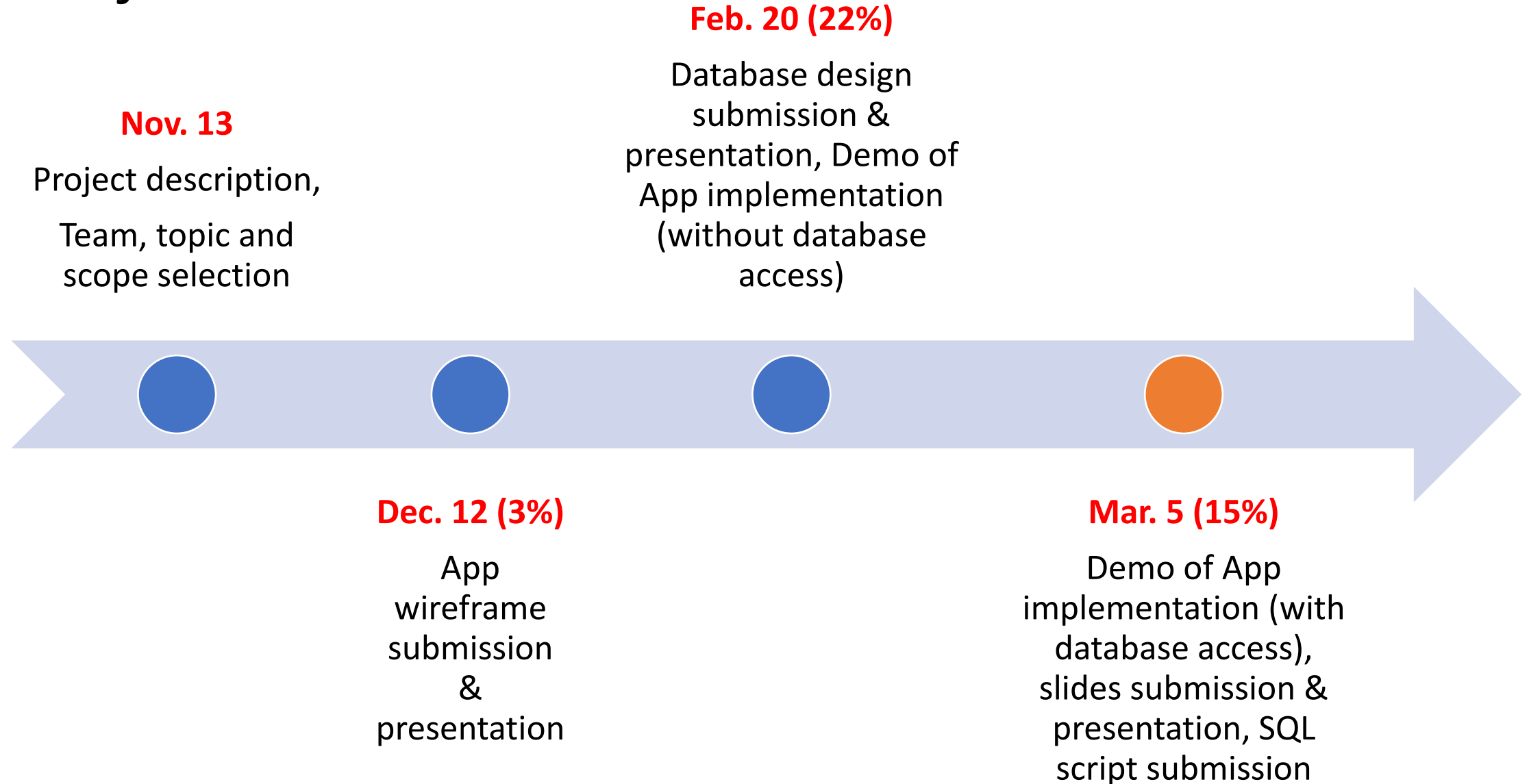


Term Project's Overview

- **Design and Develop a Database Application** for a chosen domain
 - Possible Application Domains can be suggested and discussed later
- **Design Documents** in terms of E-R Diagram, Relation Schema Definition and Assumptions about Business Logic and Constraints made in pure English Description
- **Implementation (using PostgreSQL or any other DBMS)**
 - SQL Schema Definition, Application Logic in SQL DML + Procedural Programming,
 - Interface of your choice: Most probably Web Application Interface
 - Need to demonstrate a complete WORKING APPLICATION
- **Formulate a group of 3 or 4 members**



Project's Timelines



Mark Allocation

Date	Task	Mark
Dec. 12	<ul style="list-style-type: none">• App wireframe submission & presentation	3%
Feb. 20	<ul style="list-style-type: none">• Database design submission & presentation,• Demo of App implementation (without database access)	22%
Mar. 5	<ul style="list-style-type: none">• Demo of App implementation (with database access),• slides submission & presentation,• SQL script submission	15%
		Total 40%

Submission and Presentation on Dec. 12, 2023

Submission

- Submission Deadline Dec. 11, 2023 before midnight in MS Teams' Assignment: 'First project submission: wireframe'
- Submit the .pdf file of your project's presentation slides (if using any app e.g., Canva, save the file as .pdf before submission).
 - Remark: Do not submit a link.
 - File's name: (the file name is *'firstsubmission_[your_group_no].pdf'*, e.g., *'firstsubmission_group1.pdf'*)
- The slides (App wireframe) include
 - Project's objectives, overview of the database app and scope of work
 - All role of database users with usage functions in the app
 - The flows of app usage wrt. to each function and designed screens of app to demonstrate all functions' usage.

Presentation (In Class)

- Presentation time: Approx. 10 minutes.
- App wireframe
- Explain clearly who (team member) will take care of which role of users / functions implementation

Submission and Presentation on Feb. 20, 2023

Submission

- Submission Deadline Feb. 19, 2023 before midnight in MS Teams' Assignment: 'Second project submission: DB design and App implementation'
- Submit the .pdf file of your project's presentation slides (if using any app e.g., Canva, save the file as .pdf before submission).
 - Remark: Do not submit a link.
 - File's name: (the file name is 'secondsubmission_[your_group_no].pdf', e.g., 'secondsubmission_group1.pdf')
- The slides includes
 - **App's scenario** (data requirements & associations, and functional requirements)
 - **ER diagram**
 - **Relational model and constraints**
 - For each role of user, **capture app's screens** to show the complete process of **each function**. Provide also brief but comprehensive explanation.

Presentation (In Class)

- Presentation time: Approx. 15 minutes.
- Database Design
 - App's scenario
 - ER diagram
 - Relational model and constraints
- Demo of App implementation (without database access)
 - Must demonstrate the real application's usage
 - Remark: the submitted slides is used along with grading by the lecturer only.

Submission and Presentation on Mar. 5, 2023

Submission

- Submission Deadline Mar. 4, 2023 before midnight in MS Teams' Assignment: **'Final project submission: Complete App implementation'**
- Submit the .pdf file of your project's presentation slides (if using any app e.g., Canva, save the file as .pdf before submission).
 - Remark: Do not submit a link.
 - File's name: (the file name is *'finalsubmission_[your_group_no].pdf'*, e.g., *'finalsubmission_group1.pdf'*)
- The slides includes
 - For each role of user, **capture app's screens** to show the complete process of **each function**. Provide also brief but comprehensive explanation.
 - Also provide **SQL Scripts** associated to each function of each screen, and a set of **CREATE TABLE scripts** to create a database.
 - **One .sql file of Sql script** that use to create all tables and performs all functions in the app – ***add a Comment for each sql command*** to associate the app functions (screen), slide no. and sql command(s) used.
 - Auto-generated code of CREATE TABLE using tool is not allowed (get zero score if submitted.)
- A Zipped file of your **source codes** (the file name is *'your_group_no.zip'*, e.g., *'group1.zip'*) (also add appropriate **comments** to make your code self explainable.)

Presentation (In Class)

- Presentation time: Approx. 15 minutes.
- Your completely implemented app (All UI screens with respect to each functions of each role of users) + *real database access*.
 - For each role of user, demonstrate the use of your app to fulfill each individual function (as promised in the wireframe submission).
 - Prepare to store the necessary data in the database for demonstration (e.g., storing some Food's Menu in a table (in advance) before showing the Order process).