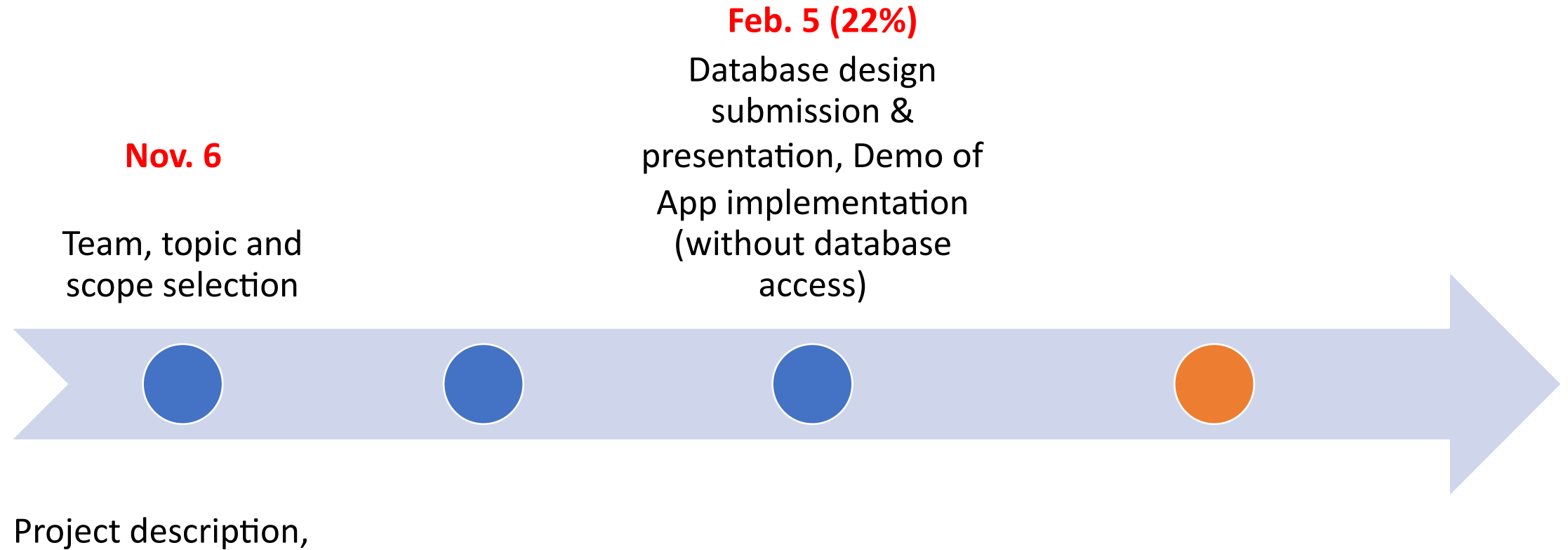# Term Project's Overview

- **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 members

Project's Timelines

Feb. 5 (22%)

Database design submission & presentation, Demo of App implementation (without database access)

Nov. 6

Team, topic and scope selection

Project description,

Nov. 27 (3%)

App wireframe submission & presentation

Feb. 26 (15%)

Demo   of App implementation (with database access),

slides submission & presentation, SQL script submission

Mark Allocation

Date	Task	Mark

Nov. 27	• App wireframe submission & presentation	**3%**
Feb. 5	• Database design submission & presentation, • Demo of App implementation (without database access)	**22%**
Feb. 26	• Demo of App implementation (with database access), • slides submission & presentation, • SQL script submission	**15%**

Total 40%

Submission and Presentation on Nov. 27, 2024

- Project's objectives, overview of the database app and scope of work

Submission

- Submission Deadline Nov. 25, 2024 before midnight in MS functions in the

  Teams' Assignment: 'First project submission: wireframe'

- All role of database users with usage

  app

- 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

on

- 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

- 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.,

Feb. 5, 2025

'secondsubmission_group1.pdf')

on on

• The slides includes

Teams' Assignment: 'Second project submission: DB design and
App implementation'

- **App's scenario** (data requirements & associations, and functional • Demo of App requirements)

- **ER diagram** implementation

- **Relational model and constraints** (without database access)

- For each role of user, **capture app's screens** to show the complete • Must demonstrate the real process of

  explanation.**each function** . Provide also brief but comprehensive application's usage • Remark: the

  submitted

Presentation (In Class)
slides is used along with

on on

- Presentation time: Approx. 15 minutes. grading by the lecturer

- Database Design only.

- App's scenario

- ER diagram

- Relational model and constraints

Feb.   26,

2025

Teams' Assignment:
'Final project submission: Complete App implementation'

Submission

- Submission Deadline Feb. 24, 2025 before midnight in MS

- 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

on on

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).