

CO550
Web Applications
Coursework 1

Design a Simple Web Database Application

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Project Outlines

1.1 Enterprise Model

1.2 Business Goals

1.3 Functional Requirements

- Enable users to login and register
 - Normal (unprivileged users) can register anytime
 - Privileged users must be added by an admin
- Enable users and visitors to see bus timetables
- Enable registered users to save their favourite routes
 - Requires personal dashboard
- Allow admins and authorised staff to change timetables and rotas
 - Create bus lines and routes
 - Allocate staff to lines
 - Make sure the staff are working the hours they were contracted for
 - Make sure no driver is assigned to multiple routes at the same time
- Allow staff to see their rota
 - Staff assigned to particular routes
 - Staff dashboard allows to print weekly rota as a pdf
- The users should be able to search routes by terms, e.g route code, town names or bus stop names

1.4 Outline of the Project

Diagrams & Schematics

2.1 Entity Relationship Diagrams

2.2 UML Class Diagrams

2.3 Interface Prototypes