**COMPUTER PROGRAMMING PROJECT PROPOSAL**

# Airline Management System

# Group Members

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# Description

The program will have two separate interfaces i.e. one for the user and the other for the authorized personnel of the airline management. The user interface will allow the user to know every detail about the flights for example their schedule with date and time and the destinations their flights go to. User will be able to book a flight and the ticket’s details will be generated.

The management will have access to internal details about the planes and flights, even the staff working on flights and on the ground. Salaries, designations, work hours, duty shift and attendance will be recorded and will be visible to only authorized people with the login ids. All the required functions to book a ticket, input all the details, calculate salary and display details will be available to the management and/or the user.

# UML Diagrams

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| **User** |
| Name  Father Name  Nationality  Passport  CNIC |
| BookTicket()  ViewSchedule()  EditDetails() |

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| **Authorized Person** |
| Login ID  Password |
| AddFlight()  DeleteFlight()  StaffDetails()  FlightDetails()  CalculateSalary() |

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| **Employee** |
| Name  ID  CNIC |
| EditDetails()  Display() |

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| **Flight Crew** |
| Monthly Salary  Required Flight Hours  Flight Hours  Designation |
| Overtime()  Deduction()  CalculateSalary() |

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| **Ground Staff** |
| Monthly Salary  Required Duty Hours  Duty Hours  Designation |
| Overtime()  Deduction()  CalculateSalary() |

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| **Flight** |
| Number  Destination  Departure Time  Arrival Time |
| EditDetails()  Display() |

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| **International** |
| Ticket Price  Number of Seats  Luggage Allowed  Meals Served  Passenger’s Passport Number |
| EditDetails()  Display()  PassportVerification() |

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| **Domestic** |
| Ticket Price  Number of Seats  Luggage Allowed  Meals Served  Passenger’s CNIC Number |
| EditDetails()  Display()  CNICVerification() |

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| **Plane** |
| Make  Model  Manufacture Year  Number of Engines |
| EditDetails()  Display() |

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| **Cargo** |
| Cargo Capacity  Maximum Weight |
| EditDetails()  Display() |

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| **Passenger** |
| Passenger Capacity  Number of Classes  Types of Classes |
| EditDetails()  Display() |