

Model Driven Software Engineering

(COEN 6312)

Project Deliverable 1

Submitted to

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# ABSTRACT

In this project we have built a temperature sensing unit which monitors the temperature and cools the operating unit by controlling speed of the motor using pulse width modulation (PWM).The project runs on a FRDM KL25Z board with the coding in Keil µV5. The application incorporates integration of hardware and software such that we can have a better flexibility with the use of software.

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INTRODUCTION

Fly Air offers an online reservation for its flights between various destinations at an affordable cost. This online reservation system enables the user to search, view and select flights as per requirements.

USE CASE Diagrams

USE CASE Descriptions

User

1. Register

|  |  |
| --- | --- |
| **Use Case Name:** | Register |
| **Use Case ID:** | **UC-1** |
| **Description:** | Registration of a new user to generate a new account in the system database |
| **Actor:** | User, Administrator and System |
| **Pre-conditions:** | User doesn’t have an account. |
| **Post-conditions:** | **Success End condition:**  1.New account created for the user.  2.The database has been updated.  3 .A success message is displayed to the user.  **Failure End condition:**  1. The account not created.  2. An error message is displayed to the user. |
| **Normal flow:** | 1.  The user clicks on the link for registration on the webpage  2.  The system displays the registration page.  3.  The user inputs all of his necessary personal informations.  4.  The system verifies the entered information.  5.  The system updates the database.  6.  The confirmation message for the new account is displayed to the user. |
| **Alternative flow:** | N/A |
| **Exceptions:** | In step4: The user registration form is missing mandatory informations or has incorrect characters or duplicate email ID.  4.1. The system highlights the sections having error.  4.2. The system notifies with an error message that alerts the user about  the error.  4.3. The system prompt the user to fix the wrong informations or to add the missing informations.  In step 5 : The system detects a problem with the database connection  5.1. The system informs the user of the problem with connection  5.2. The user registration fails. |
| **Includes:** | Get Authentication use case. |
| **Priority:** | High |