**BSHC4 – Cloud Computing**

**Cloud Application Development Project**

**Patient Management System**

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# Introduction

This section should briefly describe your project and its main functionalities. *For example, the Project description asked you to implement functionalities such as to allow a user to book a tour, and to provide an user a profile. In addition, you have been asked to add extra functionalities to the project. Briefly describe those functionalities here.*

# Development Strategy

This section documents the strategy you used for implementing your Rails project. Complete the next subsections.

## Database Design

In this section you should describe the design of the database used by your Rails application. You should enumerate all the tables and the relationships/associations between the tables. Please note that is sufficient to provide a list with all the tables and all the relationship between them. However, if you have a figure with the design of your database include it here – *note that the figure of your database design is not a mandatory requirement.*

For each table used in your application, ***write the commands you run to create the model and its corresponding table***.

## Implementation

In this section describe *concisely* the functionalities of your application, and, for each functionality list the name of the files (*just the file names and not their content!*) which contain the code/implementation of that functionality.

*For example:*

*Functionality: Book a tour – Allows an user to make a request to book a tour*

*The book a tour request is implemented using an MVC approach. The functionality is implemented in the following files:*

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* *Model: here list the name of the .rb file/files of your model/models used to implement this functionality (e.g. modelfilename1.rb)*
* *View: here list the name of the view/views (i.e. .html.erb files) used to implement this functionality (e.g. viewnamefilename.html.erb)*
* *Controller: here list the name of the controler (i.e. .rb file) used to implement this functionality (e.g. controllername\_controller.rb)*

Remark: If any of the views present some advanced methods to visualize/display the data (such as charts) do mention that when you list the name of the views.

## Design Patterns

This section should present all the patterns you implemented in your application, and the functionality provided by those patterns. In addition, you should list the name of the files which contain the implemented pattern and where the pattern is used.

*Example: Decorator Pattern is implemented to allow a user to book a tour and select the optional extras they want the tour to come with. The pattern for this functionality is implemented in the file tour\_decorator.rb (located in the folder lib) and is used in the file tours\_controller.rb.*

# Deployment

In this section specify the Cloud Platform as a Service where you deployed your application. Also please ***provide the URL of your application*** deployed to that Cloud Platform as a Service. In addition, please include the username and password of one of the users of your application. This must be provided, in particular, if you have an admin user in your application.

Furthermore, specify the name of the database service your deployed project is using.

*For example, your application deployed to a Cloud Platform as a Service could use the Heroku Postgres database.*