

UNIT: CMP-4011A: Web Based Programming**ASSIGNMENT TITLE: Hotel Booking Site.**

DATE SET	:	11/11/2015
DATE OF SUBMISSION	:	10/12/2015
RETURN DATE	:	13/01/2016
ASSIGNMENT VALUE	:	30%
SET BY	:	G. Richards
CHECKED BY	:	D. Smith

Aim:

Develop competence in the design of Flask based web development.

Learning outcomes:

Ability to construct dynamic web applications using the Flask framework.

Ability to develop a suitable architectural design for an application.

Assessment criteria

The emphasis when marking will be on the functionality of the system, implementation and quality of code in terms of organisation, clarity and commenting. Further criteria are visual appearance of the web interfaces and ease of navigation of the system.

Marks will be allocated as detailed below.

Description of assignment:

Your task is to design and implement a web site using Python and the Flask framework.

The website will be for a small hotel using a server side approach using the Flask framework. JavaScript may be included to enhance the usability of the site.

Core features (70%)

The site should comprise a home page giving details of the hotel including a gallery and a separate page describing local attractions. It should be possible to enter and display reviews of the hotel. The reviews should be stored on a server side csv file, not on local storage, and should include the name of the commenter and the date of the comment. Any other pages that you consider relevant may be included. Each page must be rendered using the Python/Flask framework.

In addition, there should be a page for requesting a room booking at the hotel. This page should allow a prospective guest to enter the arrival and departure dates for which they wish to book a room at the hotel and their name and email address. These details should be stored as a server side csv file which the hotel owner can access and edit using Microsoft Excel in order to confirm the booking or edit the entries. The page should display a list of confirmed room bookings with dates, details of the person booking a room should not be displayed and unconfirmed booking should not be displayed.

Advanced features (30%)

You may include advanced features to make the site more useable. For example, the site could check the number of rooms booked on a given date and then indicate that there is no further availability for that date, or different rates could apply to different periods or rooms and the total cost of rental could be calculated based on the number of nights booked.

Marks will be awarded for any advanced features that are included.

IMPORTANT NOTES

The site **must** be implemented using Python and the Flask framework, each page should be rendered using the Flask framework. Ensure sufficient data is included to sufficiently test the system

Use HTML5 for web pages - All HTML generated by Flask should be validated.

Use an external CSS style sheet for all styling of web pages - All CSS should validate. JavaScript may be included.

Ensure that you always use relative references, if you use absolute references it may not be possible to view resources.

You do not need to implement a relational database for the system. Data should be stored in csv files.

Deliverables

A working website using the flask framework including any referenced files.

A PDF document detailing any special or advanced features of your site that you wish to highlight and any problems you might have encountered. This should not be a detailed description of work carried out and should be a maximum of one side of A4.

Submission Procedure

The main folder containing your Python program should include the static folder containing csv files, images and CSS and a template folder for Flask templates. Zip the main folder and its sub-folders into a single file and submit it to **Blackboard** by the submission date.

The PDF document should be submitted to the hub using evision.

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