University of Glasgow | School of Computing Science

Assessed Coursework

Course Name	**Internet Technology (M)**			
Coursework Number	**1 (of 4) – Tango with Django**			
Deadline	**Time:**	**5:00pm**	**Date:**	**27, 29, 30 July 2021**
% Contribution to final course mark	**40**		**This should take at most these many hours:**	**25**
Solo or Group ✓	**Solo**	✓	**Group**	
Submission Instructions	**Via Moodle – see page 3**			
Who Will Mark This? ✓	**Lecturer ✓**	**Tutor**	**Other**	
Feedback Type? ✓	**Written ✓**	**Oral**	**Both**	
Individual or Generic? ✓	**Generic**	**Individual ✓**	**Both**	
Other Feedback Notes	**Feedback will be given in Moodle**			
Please Note: This Coursework cannot be Re-Done				

Code of Assessment Rules for Coursework Submission

Deadlines for the submission of coursework which is to be formally assessed will be published in course documentation, and work which is submitted later than the deadline will be subject to penalty as set out below. The primary grade and secondary band awarded for coursework which is submitted after the published deadline will be calculated as follows:

(i) in respect of work submitted not more than five working days after the deadline
   a. the work will be assessed in the usual way;
   b. the primary grade and secondary band so determined will then be reduced by two secondary bands for each working day (or part of a working day) the work was submitted late.

(ii) work submitted more than five working days after the deadline will be awarded Grade H.

Penalties for late submission of coursework will not be imposed if good cause is established for the late submission. You should submit documents supporting good cause via MyCampus.

Penalty for non-adherence to Submission Instructions is 2 bands

Marking Criteria
See Page 2-3

Tango with Django (40%)

Introduction

"Tango with Django: A beginner's guide to web development" (TWD) is a step-by-step tutorial that guides the reader through the development of a web application called Rango, built using Python and Django. Rango lets users browse through user-defined categories to access various web pages. During the first week, you will be working through chapters 1 to 10 of TWD to develop your version of Rango.

We recommend that you work through all 20 chapters in TWD over the course; however, only your work on the first 10 chapters will be assessed. The development of your Rango application will account for 40% of your overall mark for the course. Successful completion of Rango will give you the skills that you need to work on the ITECH team project later, which accounts for 40% of your overall mark.

Obtaining TWD

The book is available from http://www.tangowithdjango.com or https://leanpub.com/tangowithdjango19. It can be accessed free of charge by the University of Glasgow staff and students from:

- https://moodle.gla.ac.uk/course/view.php?id=2854
- https://moodle.gla.ac.uk/pluginfile.php/4407352/mod_resource/content/2/twd-uog-lib-2021-01-07.pdf

You must not share this book with anyone outside of the University of Glasgow.

Working on Rango – Important Guidance

The following guidelines are fundamental: be sure to read them carefully as they relate to the assessment of your Rango application.

1. You **MUST** make regular commits to your Git repository: **AT LEAST** once per chapter. **We will be looking for evidence of frequent commits and will account to 10% of your overall grade (please see the Assessment section for further details)**.
2. You should ensure that any messages are conveyed exactly as described in TWD. For example, if your web page is supposed to include the message "Rango says hello world" then you must include exactly that message, and not "Rango says hey there" or "Rango says Hello World". Similarly, files must be named exactly as stated – if you are required to include an image rango.jpg, this MUST be the filename and not Rango.JPG, for example. This is because automated testing is provided at the end of each chapter, and you will encounter errors if you do not follow this. Automated testing is not part of your grade, but it can provide you with instant feedback while developing Rango.
3. We expect you to do the exercises at the end of the chapters in TWD (up to Chapter 10). Also, automated tests are based on the successful completion of these exercises.
4. You may find completed versions of Rango in various places on the web. If you download such a version, you will find that it will not score highly during automated testing. This is because the automated tests are specifically designed to check out the step-by-step development of your application. As the app changes over time, some tests from earlier

chapters will fail. A good software engineering practice is to commit regularly (and at least once per chapter).

Rango development schedule

By the end of week 1 you should have completed the development of your Rango application up to the end of Chapter 10, as the group project will be based on this. As a guideline to help you plan your work, we expect that you will complete the chapters as described in the "Recommended Schedule" that you can find on the Moodle course page.

You are, of course, free to develop Rango ahead of this recommended schedule, but you should make sure that you do not fall behind. Ideally, it would be best to revisit the schedule every day to get a feeling of what needs to be completed for each day. Coursework extensions will not be granted if you fail to manage your time, or have enrolled in two courses!

Carrying out your own testing

In previous years, we used automated testing to mark this component. We opted to assess your progress via online quizzes and delegate automated testing to you for this summer block. Instructions on how to carry out this automated testing are given in the TWD book and associated repository: https://github.com/maxwelld90/tango_with_django_2_code/. It is highly recommended to run tests yourself to gain frequent and prompt feedback on the development of your Rango application.

Assessment

The assessment consists of 3 lab quizzes, and each comprises 5 multiple-choice questions randomly selected from a question bank. These questions will come from the progress you have made through the **TWD book and lecture material** as suggested in the recommended schedule. Each quiz will be open for 1 hour, and you will have the opportunity to retry the quiz twice within this hour. ***All quizzes will be available from 4.30 pm to 5.30 pm on the date noted below. Also, make sure to review your answers before submitting your attempt.*** We will not re-open the quiz if you missed a question.

The schedule for each quiz is as follows:

- **Lab quiz 1 (10%).** Tuesday 27th July 2021; you should have completed Chapters 1 to 4 of the TWD book at this point. Quiz will be available under Sprint 1.
- **Lab quiz 2 (10%).** Thursday 29th July 2021; you should have completed Chapters 5 to 8 of the TWD book at this point. Quiz will be available under Sprint 2.
- **Lab quiz 3 (10%).** Friday 30th July 2021; you should have completed Chapters 9 and 10 of the TWD book at this point. Quiz will be available under Sprint 2.
- **Source code submission (10%).** Friday 30th July 20201; source code of your Rango application up to Chapter 10. Submission activity will be available under Sprint 2 and submission instructions will be given in the activity's description.

A requirement to get the grade for the lab quizzes is to submit the source code up to Chapter 10. That is, you will submit the URL of your GitHub repository. Failing to submit the source code with your progress to date will result in not getting a grade for the quizzes which accounts to 30% of the grade for this coursework. **You must submit your own work; we will be carrying on automated tests to check the authenticity of your code and the number of commits.**