

FIT2107

Week 4 Workshop

More Black Box Testing

Note: as before, make sure you create a Google doc for your answers, and share them with the other members of your group *and* your tutor!

Please attempt part 'a' of the question before you come to the lab! For each part, try and work on an answer individually, then discuss your answers in your groups and see if you can reach a consensus to put in the Google doc.

Scenario: Provided a UI for a travelling company.

The screenshot shows a travel booking interface with a dark green background featuring a large leaf pattern. At the top, there are six navigation buttons: 'Flights', 'Accommodation', 'Holiday Packages' (highlighted in blue), 'Activities', 'Car Hire', and 'Holiday Rentals'. Below these are four sub-navigation buttons: 'Flight + Hotel' (highlighted in blue), 'Flight + Hotel + Car', 'Flight + Car', and 'Hotel + Car'. The main form area includes fields for 'Flying from' and 'Flying to', both with a location pin icon and a clear 'x' button. Below these are 'Departing' and 'Returning' date pickers with a calendar icon and 'dd/mm/yyyy' format. To the right are dropdowns for 'Rooms' (set to 1), 'Adults (18+)' (set to 2), and 'Children (0-17)' (set to 0). There are two checkboxes: 'Direct flights only' and 'I only need a hotel for part of my stay'. An 'Advanced options' link with a chevron icon is present. A 'Preferred class' dropdown is set to 'Economy'. A green 'Search' button is on the left. On the right, there is a disclaimer: 'Due to coronavirus (COVID-19) travel advisories, some destinations may be unavailable for certain dates. [Find out more.](#)' and a 'PricePromise' logo with a shield icon.

- Choose an appropriate black-box testing strategy for testing this UI? (Hint: You may or may not use a combination of testing techniques). justify your answer.
- Apply the technique or techniques justified in part a) to identify tests.
- Identify valid and invalid partitions? If any. Justify your choice.
- Choose three test frames, and for those test frames, write down a test case based on it. For brevity, you may omit writing down the entire contents of any text files in the input or output, but you must make clear what those files would contain.

- e) Explain how pairwise combinatorial testing could be used to reduce the number of tests used to test this program. Take about a paragraph. Make sure you discuss its application to this program!
- f) Could pairwise combinatorial testing is likely to be a good one for this program? Explain why or why not.