# Requirements:

R1: The program shall store data of professionals. This data should include: Name, profession and their work location/office.

R2: The user shall be able to add, delete and or alter the data that has been stored.

R3: Program shall have contain a diary for each health professional – this will store their patient’s appointments (multiple doctors might be booked for the same appointment with the same patient).

R3.1: The data for each appointment shall be stored in the diary. This would include, date, and start time, end time and the treatment (e.g. operation, consolation).

R4: The user shall be able display the list of diary entries for each health professional.

R5: The program shall be able to save the diary entries to a file and then read from that file.

R7.0: The program shall have a search function. This will include searching from a start date to an end date.

R7.1: The program shall show all the available appointments with all the doctors available also.

R7.2: The program shall enable the user to schedule an appointment between the times that were just searched.

R7.3 The program shall allow to invite health professionals to be involved in the appointment.

R7.4: It shall then display the times for the potential slots identified.

R7.5: The user shall be able to select their desired slot (a slot for their appointment)

R7.6: The program shall place this appointment in the diaries of all the doctors involved.

R8: The program shall be able to record the time taken for the search to complete. This time can stored as seconds, milliseconds etc.

R9: The program shall have an “Undo” feature. This will allow for the undoing of the last entry to the diary.

R10: The program shall be made using java.

R10.1: The program shall use data structures developed from the first principles or data structures from the java collection class library.