

**CS458**  
**SOFTWARE VERIFICATION AND VALIDATION**  
**2019-2020 SPRING**  
**PROJECT # 4**  
**INTRODUCTION TO UNIT TESTING**

**Instructions**

You are asked to do the following staff as a team work:

**Step 1:**

1. Develop a responsive page (that can run on laptops, mobile devices etc., no mobile native code required) for the Covid-19 patients with the following features:
    - a. They can enter their demographic info like name, age etc.
    - b. They can enter their daily symptoms (Search for the typical symptoms)
    - c. They can monitor their daily trends (Alerts when conditions gets worse)
    - d. Write unit tests for each method with JUnit
  2. Calculate the coverage of your unit tests (You can use Sonarqube etc.)
  3. Evaluate your Unit Test experience in terms of development velocity and code quality.
- Prepare a report covering all of the above tasks.
  - The **document should not exceed 20 pages** including the cover page.
  - *Submit the document to the instructor till **5:00 PM on 26<sup>th</sup> of May.***
    - *In electronic form (pdf or word) including your codes to the [altunel@bilkent.edu.tr](mailto:altunel@bilkent.edu.tr) and TA Nabil Abubaker [nabil.abubaker@bilkent.edu.tr](mailto:nabil.abubaker@bilkent.edu.tr).*
  - Cheating is prohibited.
  - Your own ideas and your own words are expected.
  - Creativity is appreciated.

Good luck