—

Student should read carefully this situation:

Not only in manufacturing, but also in customer service, the car industry and its supporting

industries are continually altering and reinventing itself. Automobile dealerships, mechanics, and

driving instructors have all benefited from the trend to digitisation. GarageOne has many car

services with several offices in the city center. Because GarageOne in the automotive business must keep up with developments and invest in digital products to stay current. Therefore, the manager of GarageOne decides to adapt a software for automotive service businesses.

Currently, GarageOne has no system to manage car services, brands, workers at brands, customers, etc... All of information is processed and stored in Ms Excel. The main business objectives of GarageOne are making the intelligent Business Analytics Dashboard to understand the business performance and intergrating marketing solutions. For these reasons, the manager of GarageOne decides to adopt a Web application for manager and marketing department. Several features also are defined at the first stage as below:

/ Intuitive report and business analytics.

/ Smart finance and tax manager.

/ Individual outlet-wise performance reports.

/ Measure output efficiency of each service technician.

/ Comprehensive inventory prices and reports.

Web application is used for manager wherein he/she could view a list of best seller services,

including the number of customers used, the receipts. The manager could check the technical

workers with the total of tasks that he done, the number of in charged services. At the dashboard,

the manager could view the statistics of services by type, by day, by week, by month. The manager also update the price of services, type of services, and components/accessories. The Web application could run on Google chrome, Firefox, Sarafi and any devices (mobile phone, tablet, PC, laptop).

As a software development professional, you will run into all kind of projects and situations within those projects with 3 developers and 1 tester. The manager could assist you in elicitate some missing requirements in the early stage. Please answer the following questions:

1.What software development methodology would you suggest for this situation and why?

(3 points)

- identifying the characteristics of this situation and specify the logic behind the selection

of characteristics

- Select a model that best fits the characteristics you identified above.

2. List out 4 functional requirements of manager and 2 non-functional requirements of system.

(1.5 points)

3. Write 2 user stories of manager. (1 point)

4. For the web app, create a story map to show the user experience and what you need to build.

Feel free to add fictitious functionality and features as you feel appropriate. You will be graded

on the quality, completeness, and correctness of your story map.(2 points).

5.Despite the software development methodology you have chosen, your manager requires you to

choose Waterfall Software Development to apply this project.

3. Should you agree with this require or not ? if NO, please give the appropriate

explanation for WHY question. If YES, give your propose ideas to require end users

and other team that could assist you choosing Agile to develop this application. (1.5

points).

b. What kind of testing would you suggest the team to do? (1 point)