

## COURSE - AGILE SOFTWARE PROCESSES

### ASSIGNMENT

Submission Date: 7<sup>th</sup> Feb 2022 11.59 PM

Assignment Submission Mode: Canvas LMS- File Upload

Weightage: 20%

#### 1.1 Objective:

To articulate the requirements as a set of 'user experiences' and how to compute the story Points to estimate the size and effort for the project. Also, to understand and evaluate the importance of Sprint Ceremonies and Scrum roles and responsibilities in accordance to sprint execution

#### 1.2 Problem Statements:

##### 1.2.1 Case Study 1:

United Arab Emirates is planning for the international event, where they are expecting 13 country football team's participation, these matches will run for 21 days. UAE event management organization have hired your company to develop the software products required for the event management.

Your team is going to work for the product called **“facify-me”** [Facilitations System] which will be primarily used by football team members & Coaches to know their respective schedule and location of their matches and practice games arranged in local grounds.

Product Backlog:

“facify-me” should serve for:

1. Total User base: (260 Team Members + 26 Coaches + 50 Facility Support Team + 10 Facility Admins + 5 Executives + 10 Buffer)
2. Total Grounds: 7
3. Practice Matches: 7
4. Total Matches: 23

Features to be developed:

- User registration should support only registered member
- “facify-me” should provide dashboard summary on app home page
- Facility Admin should be able to book the grounds with approval of any Two Executives
- Ground list should only show Available / Free ground list at the time of booking by multiple Admins
- Ground should be made automatically available when the schedule is cancelled
- Each ground should show Four slots
- Up on every schedule confirmation respective team members and coaches should get a notification on their mobile application
- Coach should be able to make request for any changes in ground selection or Schedule changes
- The request for change in Ground and Schedule should pass through the approval from Facility Admin Team and any of Two Executive

With reference to above Product Backlog and prioritized feature development your team has been asked to plan for Four Sprint backlogs. Where:

Sprint Life: 3 Weeks

Team Size: 7

**Compute following points:**

- 1) Create Four Sprint Backlog
- 2) Create at least 3 user stories per sprint and each user story should have five sub stories.
- 3) Define the Sprint Ceremonies and their schedule
- 4) Benefit Summary of the above recommendation

### 1.2.2 Case Study 2:

Rupaya Commercials have started an inhouse development for their upcoming mobile application product. They have been awarded as an Agile Organization three years in a row. However, one of their development team is lagging in achieving their sprint goals since last Quarter the only change to the team was Scrum Master. The new scrum master has scheduled all sprint ceremonies, and everything is going good with exceptional feedback. In every retrospective, team is always putting positiveness and not a single complaint / issue raised about the team co-ordination or delivery.

#### Sprint Details:

Sprint Length: 4 Weeks

Daily Standup: 15 Min

Sprint Planning: 4 Hours

Sprint Review: 1 Hour

Sprint Retrospective: 20 Min

#### Squad Details:

1 : Product Owner

1 : Scrum Master

7 : Development Team

You have been hired as an external consultant to identify and remediate the issue so the team should be on track on their sprint achievement.

#### Compute following points:

- 1) Which sprint ceremony needs attention?
- 2) What you will advise to new Scrum Master?
- 3) What you will advise to the Product Owner?
- 4) What you will advise to the Development Team?

### 1.3 Submission Instructions

- 1) Adhere to plagiarism policy. (Do not copy the content directly from the internet sources)
- 2) Academic Honesty: You are welcome to discuss with peers and refer the internet in order to better understand the concept, but you may not share content or do not do a verbatim copy from the internet.
- 3) Provide your inputs clear and specific.
- 4) Represent your understanding of Agile and benefits.
- 5) Do not include confidential / sensitive information of your organization in the content.
- 6) Your submission document should contain your BITS ID & your name
- 7) While naming the files use your ID and your name for identification purposes

### 1.4 Weightage:

**Total: 20 Points**

Case study 1: 12 Points

Case study 2: 8 points

### 1.5 Notes:

- This is a take-home assignment to be carried out by each participant.
- In case of any further queries, use discussion forums, or reach out to me at [sonika.rathi@pilani.bits-pilani.ac.in](mailto:sonika.rathi@pilani.bits-pilani.ac.in).