M11.B1: Assignment 11: SAFe

Sahil Mahendra Mody

CWID: 20007262

Investment Themes:

Large Enterprises make decisions once or twice per year on investment themes based on existing and new offers.

Epics:

In SAFe, business epics are large projects that add value to the organization and frequently cross organizational (release trains), temporal (PIs), or both barriers. The ability of the agile enterprise to effectively assess and organize business epics for implementation is a fundamental skill. Although it's easy to imagine epics as large, binary, committed blobs of work, the truth is that they should be executed gradually to reap the benefits of agility. Furthermore, some will not merit being fully implemented after the technology, benefits, and economics are recognized, as the initial effort provides the majority of the potential business value.

A company that develops software for driverless cars may consider developing software for driverless trains or light rails and partnering with a large organization such as NJ Transit or Ny Subway. This could open up a massive market for them, and they will have first mover advantage if they complete this project within the next 3-4 years, because many companies are already planning to go in that direction.

Themes:

Using strategic themes, a SAFe portfolio can be aligned with the business strategy of an enterprise or a government organization. Enterprise leaders and portfolio stakeholders work together to evaluate a wide range of inputs and develop a set of strategic themes. These are distinct business objectives that transfer strategic purpose elements from the organization to the portfolio. Strategic themes are an important tool for disseminating the strategy across the entire portfolio, so it's critical to communicate a clear, memorable message to everyone involved in solution delivery. Strategic themes can be defined using the Objectives and Key Results (OKRs) template or a single phrase.

Release: 1 (Mar 23 – May 23)

Theme:

Integrating the existing features with cab company's cars.

User Stories:

1. Title: Automatic Closing of doors.

Acceptance test: The train closes the doors while starting from one point to another.

Priority: 2

Story Points: 3

Description: As a driver I want to close all the door whenever I start the train from one stop to another and also check no person is standing on the door

Task: Test the automatic closing of doors with one compartment of a train

2.Title: Identify if the existing trains are compatible with the existing code.

Acceptance test: Test the software with each type of train with the train company.

Priority: 1

Story Points: 2

Description: The product manager should know whether the existing trains are compatible with the software or if they must be rebuilt from the ground up.

Task: Integrate the software with one train and test it.

3. Title: Test the driverless parking software in the train.

Acceptance test: The train parked itself properly at a station without assistance.

Priority: 1

Story points: 3

Description: To determine whether the trains can park themselves without assistance and whether the software is compatible.

Task: Test the self-parking feature at the station with the sample train.

4. Title: Alerting People

Acceptance test: Honk if a station is nearby.

Priority: 1

Story Points: 3

Description: As a driver I want the train to identify any station in its way and start honking so that people on the platform comes to know that train is coming

Task: Create a real-life scenario to check if this feature works properly.

5. Title: Identifying a proper parking space

Acceptance test: Find the proper space on the tracks when a station arrives

Priority: 2

Story Points: 4

Description: As a driver I want the train to find an available space on the station so that it can self-park itself in that space without my assistance even with good speed.

Task: Test the train to find a exact parking space on the track.

Release: 2 (Jun 23 – Aug 23)

Theme: Implement Train features in the software.

User Stories:

1. Title: Add an energy saving feature.

Acceptance test: Test the train to switch off all electrical appliances.

Priority: 2

Story Points: 7

Description: As a train service company, I want the train to check whether there are passengers on the compartment and if no then switch off all the appliances

Task: Test the compartment of the train with no passengers.

2. Title: Define the estimated reaching to the next station time.

Acceptance test: Test if the software can estimate the reaching to the next station correctly.

Priority: 2

Story Points: 10

Description: As a train service company, I want the software to estimate the time it will take for the next station.

Task: Implement the estimation of the drive of the train from one station to the next station to a great precision.

3. Title: Change the lanes safely.

Acceptance Test: Test if the software can change the lanes automatically

Priority: 3

Story Points: 15

Description: The software must be able to change the lanes automatically without any collisions

Task: Implement changing of tracks with a sample train

4. Title: Stop if there is a red signal.

Acceptance test: Test by bringing a dummy signal in the path of the train and see if the train stops at the red signal and only move while the signal is green.

Priority: 1

Story Points: 8

Description: The software must make the train stop if there is a red signal

Task: Test with a dummy signal on the path with a sample train

5. Title: Check whether all the passengers have arrived and the compartment is full.

Acceptance test: Test if the software successfully let all passengers to get into the train and then shuts the door.

Priority: 1

Story points: 10

Description: As a driverless train service company, I want the software to check whether all the passengers have arrived or stopping the passengers to enter if the compartment is full.

Task: Using sensors keep a track of passengers have arrived and no one is standing on the door.