**SSW 555 Agile Methods for Software Development**

**Quiz 2: User Stories**

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**For this quiz you will play 2 roles: sometimes you will act as a customer and sometimes you will act as a software developer.**

**You will describe the features and user stories for a home security system. The system should detect unwanted intrusions and take appropriate action, such as notifying the police. The owner of the system should be able to set it for different modes of vigilance and response.**

**1. Playing the role of the customer, make a list of the features you want in your system.**

**Answer:**

* Intrusion Detection
* Environmental Protection
* Surveillance
* Life Safety
* Home Automation

**2. Playing the role of the customer, write at least 5 user stories. Be sure to include the following elements**

**in your story:**

**• title: a short phrase describing the story**

**• priority: the importance of the story (filled in later)**

**• story points: the difficulty of implementing the story (filled in later)**

**• description: a sentence or two describing the story**

**Answer:**

1. Intrusion Detection

Description – It has a door sensor, a glass break sensor and motion sensor to detect unusual intrusion activities.

2. Environmental Protection

Description – It should have environmental devices like smoke alarms and carbon monoxide sensors to detect smoke and carbon monoxide levels.

3. Surveillance

Description – Whether you’re in the kitchen or another country, security cameras should allow you to keep an eagle eye on your property, children, and belongings. It must include wireless indoor and outdoor cameras.

4. Life Safety

Description - Life safety is an additional layer of protection should focus on elderly individuals and small children. It can include a wireless panic button control and medical alert console.

5. Home Automation

Description – It should automate light setting, door locks and thermostat in a way that proves useful and saves energy also.

**3. Playing the role of the developer, estimate how many days each story will take. If a story will take too long, break it into multiple stories. Write the number of story points in the appropriate place for each story.**

**Answer:**

Here 1 story point = 1 day.

1. Intrusion Detection

Installing a door sensor – 5 story points

Installing a glass break sensor – 5 story points

Installing a motion sensor – 5 story points

Total Story Points: 15 story points

2. Environmental Protection

Installing smoke detectors: 15 story points

Installation of carbon monoxide sensors: 15 story points

Total Story Points: 30 story points

3. Surveillance

Story Points: 7 story points

4. Life Safety

Registering the resident with nearby Police Station – 5 story points

Designing Wireless Panic Button console - 10 story points

Registering the resident with nearby hospitals - 5 story points

Designing and implementing medical alert console – 10 story points

Total Story Points: 30 story points

5. Home Automation

Story Points: 15 story points

**4. Playing the role of the customer, arrange the stories in priority order. Assign a priority of "1", "2" or "3" to each story, where the most important stories get a "1".**

**Answer:**

**Stories arranged according to Priorities:**

**Priority “1”:**

Intrusion Detection

Environmental Protection

Surveillance

**Priority “2”:**

Life Safety

**Priority “3”:**

Home Automation