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**SOEN 6481**

**SOFTWARE SYSTEMS REQUIREMENTS SPECIFICATION: SECTION SS**

**FALL 2019**

Deliverable 2

Group B

**Team Members**

|  |  |
| --- | --- |
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## PROBLEM 5. [70 MARKS]

For your TVM, elicit, decide, and create a set of user stories, say, USIGO.

The collection of user stories in USIGO can include both positive as well as negative user stories.

The collection of user stories in USIGO must, based on some systematic scheme, aim for ‘high quality’, individually as well as communally.

The constraints on USIGO can be either local (that is, on a single user story) or global (that is, on multiple user stories). The constraints must, as appropriate, highlight TVM-related product quality concerns. For example, such constraints could be **maintainability- specific, security-specific, sustainability-specific, and/or usability-specific** (including **accessibility-specific**).

Each user story in USIGO must be associated with a **priority**, **estimate (in story points)**, as well as with one or more **acceptance tests**. Each user story must be **identifiable, atomic, consistent (with respect to other user stories), implementable, validatable, and verifiable**. Each user story must also aim to **minimize the potential for ambiguity and indeterminacy**.

## NOTE

The concerns pertaining to the details of the technique used for estimation of user stories can be ignored.

**ANSWER**

The user story have been drafted for the TVM[Övergaard, Palmkvist, 2005]. The source of these user stories are following:

* Use cases
* Interviews
* Survey
* Other User Stories
* Academic Research

**5.1 USER STORY DRAFT TABLE**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Id** | **User Story Description** | **User Roles** | **User Goal** | **Reason** | **Priority** |
| US1 | New user wants to register in the system | Unregistered User | Register to the system | To buy ticket to access the transport facility | 4 |
| US2 | A registered user wants to log into the system | Registered User | Login to the system | To buy ticket to access the transport facility | 4 |

**5.2 User Stories**

**5.2.1 Registration**

|  |  |
| --- | --- |
| IDENTIFIER | US1 |
| NAME | Registration |
| STATEMENT | As a User, I should be able to register to the system |
| CONSTRAINT | 1. The user should be an unregistered user. |
| PRIORITY | 3 |
| ACCEPTANCE CRITERIA | 1. User is registered successfully. |

**5.2.2 Login**

|  |  |
| --- | --- |
| IDENTIFIER | US2 |
| NAME | Login |
| STATEMENT | As a User, I should be able to login to the system |
| CONSTRAINT | 1. The user should be already registered in the system |
| PRIORITY | 4 |
| ACCEPTANCE CRITERIA | 1. User logs in successfully. |

## PROBLEM 6. [20 MARKS]

For USIGO, create a backwards traceability matrix, say, TMIGO. TMIGO must have at least two columns, one for each user story, and the other for one or more sources from which the user story was elicited.

For a given user story, a ‘source’ could be another user story, one of the other artifacts of

**iGo**, a person, or some literature, preferably reachable via the Internet.

**ANSWER**

The backward traceability matrix (TMiGO ) is created based on the sources for the various user stories. The backward traceability matrix is the potential for tracing antecedent steps in a developmental path, which is not necessarily a chronological path [Traceability, Kamthan, 2019].

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| User story name |  | Interviews / Survey | Use cases | User story | Previous Project | Academic Research |
| Registration | US1 | X | X |  | X |  |
| Login | US2 |  | X |  | X |  |

## PROBLEM 7. [30 MARKS]

For your TVM, say, USIGO, each **member of every team must implement one user story each** to ensure its realizability (specifically, implementability and testability within the given constraints).

The exact user story in question will be assigned **pseudo-randomly** at some point during the course.

There should be documentation that (1) explains how each user story was implemented, and (2) includes instructions of use for each implementation.

The implementation must be **demonstrated** on the assigned date.

## NOTE

There is no restriction on the programming language(s) used, except that it(they) should be in broad use today. The collection of implementations should be such that they appear coherent, as if part of a high-fidelity prototype of **iGo**.

**ANSWER**

1. Please find the attached source code along with this document.
2. Please open ***LINK*** for the user story implementations
3. Implementation Details:

|  |  |
| --- | --- |
| **Name** | **User Story** |
| Sriparna Chakraborty | VSU PLEASE FILL |
| Vsu | RAVNEET PLEASE FILL |
| Ravneet | VASU PLEASE FILL |
| Vasu | GUNBANSH PLEASE FILL |
| Gunbansh Bhatia | US2 - Login |

# References:

# [1]