Steps for making SRS

Is the requirement described

Check possible conflicts

Use a checklist here

Update requirements

about the product

(eg. Color Blindness)

(eg. Left Handed, handicapped)

fairly (Less where less is needed

and more where more is needed)

Managing requirment

Tracking and managing changes

Different types of Users

End User: The one who uses the product

or use it through and intermediary.

Human Limitations to consider

Perceptual/sensory Limitation: Limit in 5 senses of human

Cognitive or Memory Limitation: Human memory limitation

Cultural Limitation: Cultural Background. (eg. Symbol, Lang.)

Physical Limitation: Limit in human physical interaction

Stakeholder: The one who is affected by the product by any means

Primary User: End user/direct user of the product

Tertiary User: Affected by the use of product or make discussion

Secondary User: The one who will use the app occasionally

Eliciting Requirement Meeting, discussion and collaboration with clients Distinguish wants and needs Check if the requirements are realistic and feasible **Expressing Requirement** Framing the requirements Use case diagram **User Stories** Story Board High Must be done Medium Important but can be done **Prioritizing Requirements** later or satisfied in another way Improvements Low **Analyzing Requirement** Is the requirements are clear **Software** Is the requirement consistent with the problem Requirement

Expressing User stories requirements

Front Side of the card:

As a, I want to ..., so that....

Independent

- Negotiable(Should focuses on important aspects of requirements, should not focus on technical details)
- Estimatable (Time require to implement) **Small** (implementable in a time period)
- Testable (Acceptance Test)

Product Backlog:

User stories with given unique number:

- Work Task (Not product feature but need to be done)
- Knowledge Task (Study)
- Bugs
- User Story

Prioritization:

- Must be done
- Should be done

Could be done Won't be done

Questions to ask:

If you want to elicit business requirements:

Problem, Motivation, Highly successful solution

Successful solution worth, Influence, Related projects, Scope, Unintended consequences,

Difference between Current solution

If you want to to elicit business

Policy, Guideline, Law

If you want to elicit user requirements: Goals, Expectation from the solution, aspects that excites you, most/least valuable aspects

If you want to elicit non-functional requirements:

Ask about different quality mentioned in non-functional requirements

If you want to elicit external

interfaces features: Events that the program will response, Environment The product will use for, Exception condition of the Environment Would anyone ever want to ...? Could ... ever occur? What should happen if ...?

After first meeting:

Use case diagram

Name

Eliciting requirements

- Participating Actor
- Goals
- Triggers
- Pre-conditions
- Post conditions
- Basic flow
- Alternate flows
- Exceptions
- **Qualities**

Wireframes

- Doesn't contain any design element
- Shows the location of ui elements
- Doesn't specify color, pattern
- Has to be done very quickly after initial meeting
- Tool: Miro, Pencil, PowerPoint

Story board

Move style/Comic Strip

Describes high level user experience with the product

Glorified wireframes

- Shows the relation between different wire frames
- Shows transition between states

Types of Requirements

Business Rq.

Collecting

Cheat-sheet

Purpose/Goal of the project

Business Rule

Budget, Policy, Guideline, Regulation

User Rq.

Use cases, User stories, Story Boards,

Scenarios

Functional Rq.

Input \rightarrow Action \rightarrow Output Data flow diagram is used here

Non-Functional Rq.

- Accuracy
- Dependability
- Usability
- Security
- Efficiency
- Performance
- Maintainability

External Interfaces External API, Database etc Data flow diagram is used here

Physical product settings Physical Environment

Development Constraints

Production Environment (Bandwidth,

Processing Power, Memory, Platform,

Environment)

Ambiguity causing words in user stories (Ignore them):

Indirect: SHOULD, COULD MAY, WILL Vague: PROCESSED, HANDLED,

Backside of the card

Criteria to meet the user story

Criteria of implementation to

С3

US

US

CATEGORIES

RELEASE

RELEASE 2

Acceptance Tests:

requirement

satisfy client

C2

US

US

C1

US

US

US

US

US

Story Map: 2D US map

OPERATED, ITEM, ENTITY, UNIT. AS APPROPRIATE. WHERE APPLICABLE, WITHIN REASON

Completion: AND SO ON, AND SO FORTH, etc, ALSO Persuasion: CLEARLY, CERTAINLY, OBVIOUSLY Qualifiers: ALL, EVERY, ONLY, NONE, NEVER, ALWAYS, SOMETIMES, OFTEN, USUALLY Comparative: ...IS THE SAME

AS..., -ER, -EST, ...IS MORE THAN..., ...IS AS..., ...AS Quantities: A/AN, SOME, MOST, Pronouns: HE/SHE, IT, WE, YOU,

THEY, US, OUR, THIS/THAT Positional: AFTER, BEFORE, FOLLOWING, LAST Temporal: WHEN, FOR, UNTIL, FROM, CURRENT, LATEST Joining: AND, OR, BOTH

Analyzing Requirement

Checklist for quality of User Story:

- 1) Correct (ACCURATE)
- Complete (NO MISSING INFO)
- 3) Clear (NO AMBIGUITY)
- 4) Consistent (NO CONFLICT)
- 5) Feasible (POSSIBLE TO IMPLEMENT)
- 6) TRACEABLE (Trackable)

Software

recommendations:

- Use case diagram: Libre draw
- Wireframes: InVission, Miro
- User Story and Story Map Trello, Azure

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