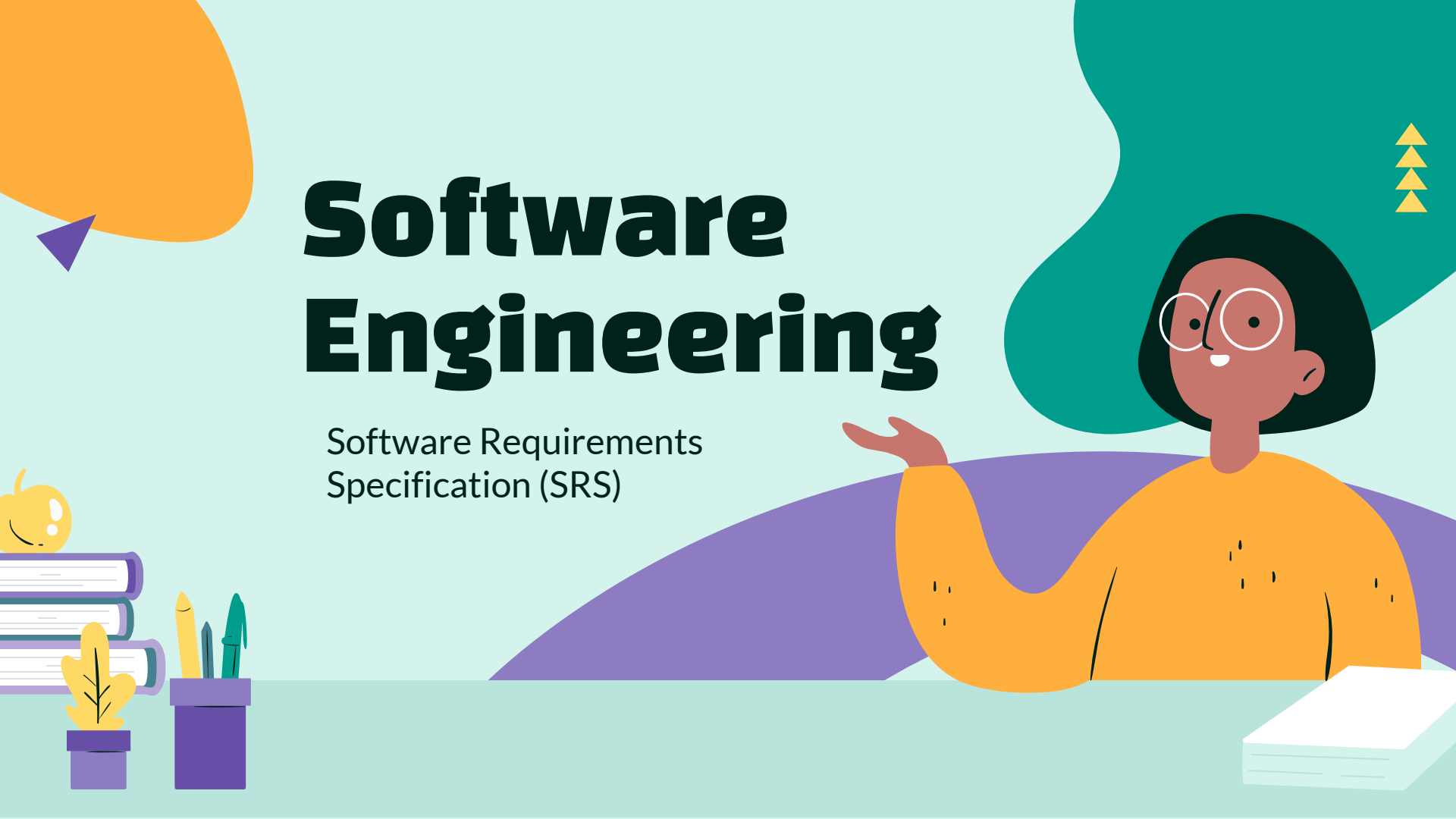
Software Engineering

Software Requirements Specification (SRS)



“Let’s break the ice guys !!”

01
Announcements

02
Recap

03
SRS

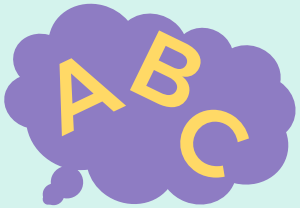
04
Exercise

05
Exersice Discussion

01

ANNOUNCEMENTS

First Announcement



Board and HW selction

Second Announcement

System requirements

Almost finalized CR, CRS and UAT plan. It’s the first year to include the testing plans.

Process familiarity

Familiar with GIT, SW process

Learning phase

Great Job!

02

Recap

Do you remember ... ?

Recap

V-model

CR: Customer Requirements
CRS: Customer Requirements Specifications
HSI: HW and SW Interface
UAT Plan: User Acceptance Test Plan

03

SRS

Software Requirement Specification

SRS

01

Deal with it as use cases, like you are saying in each scenario what will happen then take each scenario and divide it into steps these steps will be the SRS requirements.

02

Each requirement may have an input and output or only one of them. Remember that we have functional and non-functional requirements.

03

The inputs and outputs must be the same name of the SRS context input/output signals name.

04

Zoom in the system context to get your software context !
SW context is more detailed. It looks like the data flow diagram.

05

Test type depends on if we will have automated test or manual test. All is system test, so in the system test plan document, after defining the test scenario type “positive-negative”, we will determine the test type “inspection – code review “ for manual test and “stress – smoke” for automated tests

Let's
Practice

04

WELCOME to the practical work!

Exercise

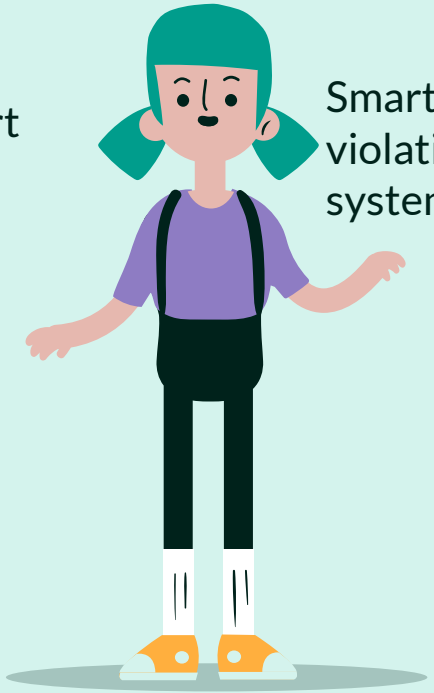
Project/Team	Team members			Team Tasks
Smart traffic organizer	Essam Abrar	Reham Omnia Mohamed		You have the CR, your tasks are: • System context • System scenario and workflow • Choose one scenario to apply in documents • Create sheet for plan that contains tasks & assignation, deadlines, • System context • System scenario and workflow • Choose one scenario to apply in documents CRS – HIS • Create Software context • Create SW requirements for the chosen scenario.
Smart car violation system	Aya-I Mariam Alaa-E	Jana Abdullah	Oraby Ahmed	
Mall smart parking	Alaa-S Salma	Kotp	Nour Marwa Hazem Aya	

Our customers

Karla

Mall smart parking

Helena



Smart car violation system

John

Smart traffic organizer Customer

05

Let's see the great work !

Tasks and Timeline

December

- SRS
- UAT plan
- RTM
- Test HW
- Basic proof of concept

January

- System test plan
- Architecture (GDD)
- RTM
- Integration test plan
- Detailed Design (CDD)

February

- Unit test plan
- Unit Implementation
- Internal unit test
- Step by step integration

March

- Execute Unit test plans
- Bug fixing
- Execute Integration test plans
- Bug fixing
- Execute System test plans

Thanks!

Do you have any questions?
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