

Today's exam 12-9-2022

Q1- What is SOAP Web services and the related technologies explain them. (20 Min)

Q2- What is Agile vs Standard Software development methods.

Discuss what is Scrum and all the related Elements of Scrum. (20 Min)

Q3- Function Points and COCOMO ,COCOMOII. (20 Min)

Q4- Scenario of Renting Car application (enjoy) (60 Min)

- * Discuss about the main elements and present the User Story.

- *Make an architecture diagram with all the possible elements

- *Make Sprint for the 6 months duration.

Q2

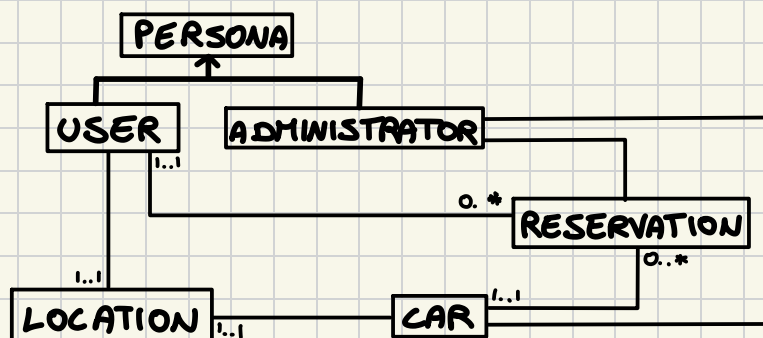
STANDARD METHODS FOLLOW A RIGID AND SEQUENTIAL APPROACH TO SW DEVELOPMENT. A CLASSIC EXAMPLE IS THE WATERFALL MODEL. EACH PHASE MUST BE COMPLETED BEFORE MOVING ON TO THE NEXT. THE FINAL PRODUCT IS DELIVERED ONLY AT THE END OF THE PROJECT.

AGILE IS AN ITERATIVE, INCREMENTAL APPROACH TO SW DEVELOPMENT THAT EMPHASIZES FLEXIBILITY, COLLABORATION AND CONTINUOUS DELIVERY. SW IS DEVELOPED IN SMALL CYCLES CALLED SPRINTS AND THE PRODUCT IS FREQUENTLY RELEASED IN WORKING INCREMENTAL VERSIONS.

Q3

MAIN ELEMENTS:

- ADMIN FOR THE SYSTEM MANAGEMENT
- USER WHO WOULD RENT A CAR
- RESERVATION OF A CAR BY A USER
- RENTED CAR
- CAR'S LOCATION



USER STORIES:

AS A USER
I WANT TO CREATE AN ACCOUNT
TO USE THE APP

AS A USER
I WANT TO VIEW AVAILABLES CARS AROUND ME
TO RENT THE NEAREST CAR

AS A USER
I WANT TO RENT A CAR
TO USE IT

AS A USER
I WANT TO UPLOAD MY CREDIT CARD
TO PAY

AS AN ADMIN
I WANT TO CHECK CAR'S CONDITION
TO REPLACE IT IF BROKEN

AS AN ADMIN
I WANT TO MAKE SURE OF RESERVATION
TO ACCEPT IT

AS AN ADMIN
I WANT TO MANAGE USERS
TO CHECK THEIR BEHAVIOR

6 MONTH OF 4 WEEKS SPRINTS → 6 SPRINTS

SPRINT	MAIN OBJECTIVE	DEVELOPED FEATURES
1	ACCESS AND DATA MANAGEMENT	REGISTRATION, OAUTH, DB DESIGN, FIRST UI DESIGN.
2	ADDING ADMINISTRATIVE FEATURES	ADMINISTRATIVE MANAGEMENT OF USERS, CARS AND RESERVATION
3	VIEWING AND RENTING A CAR	CARS RESERVATION, MAP DESIGN, UI IMPROVEMENTS.
4	IMPLEMENTATIONS OF TRANSACTIONS	CREDIT CARD LOADING AND OTHER PAYMENT METHODS. FIRST POSSIBLE RELEASE
5	TESTING AND OPTIMIZATION	FUNCTIONAL TESTING AND BUG FIXES.
6	DELIVERY	FINAL IMPROVEMENTS AND COMPLETE RELEASE