



PLACEMENT TEST – INTERN BA

Full Name	Ekanayake Bamunu Mudiyanse Ralahamilage Kande Walawwe Keshani Dimagi Ekanayake
National ID Number	996534731V
Contact Number	0715376148
Candidate Number	

Important Instructions

- ✦ Please fill the above table of your details accurately.
- ✦ Answer all the questions given (1-6).
- ✦ Provide all the answers in the extra papers given.
- ✦ You will be given 1 hour only.
- ✦ Usage of internet and any other helping materials including calculators is prohibited.
- ✦ **Marks will be allocated out of 100.**

Answer all the questions provided.

I. What is "Story Points" in Agile?

(5 marks)

II. Write a user story to schedule a Medical Appointment in an Online Channeling App.

(15 marks)

III. "The teams following the Agile Methodology can always perform better than the teams following other Software Development Methodologies." State your arguments about this statement whether you accept it or not.

(15 marks)

IV. List down the UML Diagrams widely in use. Briefly explain the listed diagrams and give one example of any of them.

(20 marks)

V. Draw wireframe for the user journey of Shopping Cart functionality to use in an online shopping mobile app consisting all needed functionalities. Also, briefly explain the functional elements of the wireframe.

(20 marks)

VI. *"Mr. Groot is the son of a farmer who lives in Taluhnia. He observed that the farmers live in Taluhnia facing difficulties in bringing their agro-products on time to the nearby towns. Since Mr. Groot is a Software Engineer and interested in Entrepreneurship, he has an idea to develop a mobile app to connect the farmers with vehicle owners who own delivery vehicles in nearby areas to deliver the agro products to the needed places as expected."*

Suggest a suitable business model with the most required features/modules to consider with the mobile app. State some unique features separately to simplify and enhance the end-user experience to facilitate them to use this app without much struggles.

(25 marks)

Answers:

- i) Story points are used to measure the effort needed to accomplish a particular work (i.e: an item included in product backlog). Story points are given by considering the factors like uncertainty, complexity and the amount of work.

ii)

Title	Priority	Estimate
User story As a patient, I should be able to schedule medical appointment at any time, so that I will be able to get medical treatment quickly in an emergency situation.		
Acceptance criteria		

iii) I accept the statement of "The teams following the Agile Methodology can always perform better than the teams following other Software Development Methodologies." Because the teams follow agile methodology uses set of principles achieve the best in projects. They are as follows.

Satisfying customers through early and continuous delivery of valuable work.

Breaking big work down into smaller tasks that can be completed quickly.

Customer collaboration over contract negotiation.

Maintaining a constant pace for completed work.

Responding to change over following a plan.

Continually seeking excellence.

These unique values makes the teams follow agile methodology to perform well

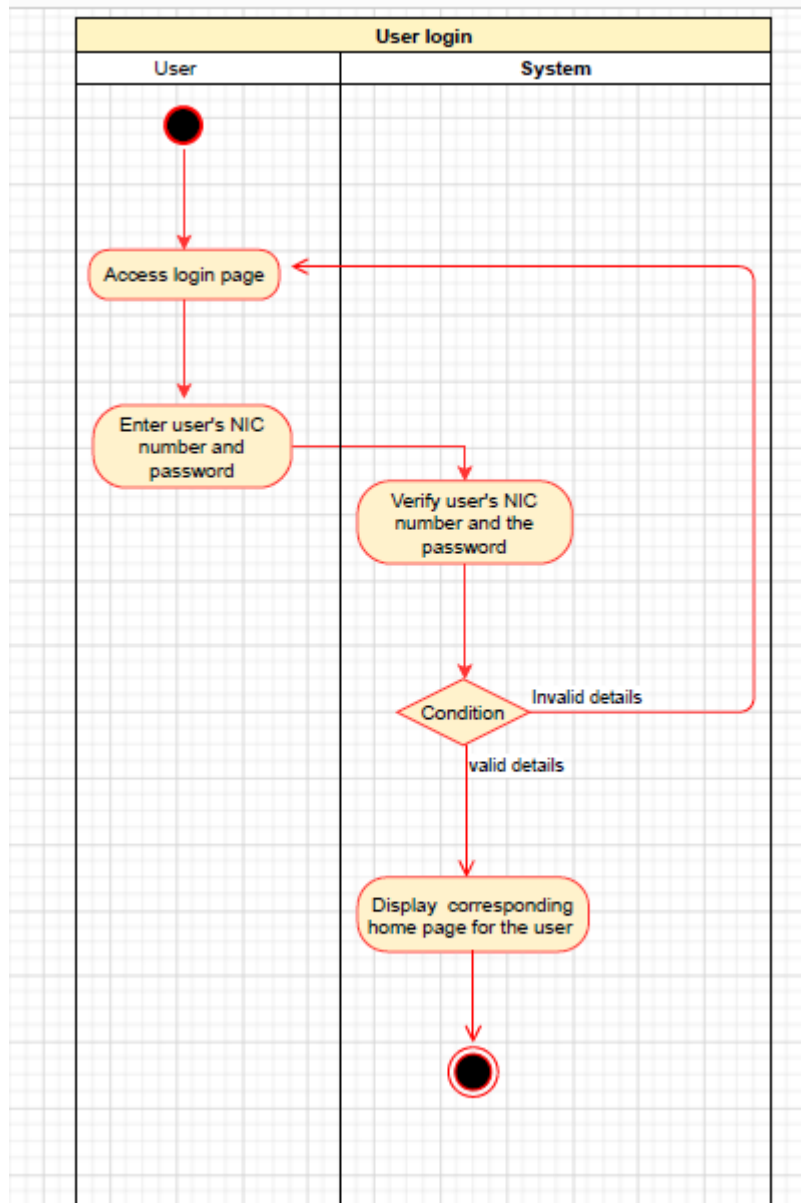
iv)

Class diagram – Class diagram comes under structural diagram. A class diagram consists of classes, attributes, methods related to a particular class and relationships among the classes.

Component diagram – Component diagram also comes under the structural diagrams. It is a physical representation of the physical aspects of object-oriented systems. Component diagram depicts the relationships among various components of the system.

Use case diagram – Use case diagram comes under behavioral diagrams. It shows the actors of a particular system and the functionalities performed by each and every actor and the interactions among those functions. The use case diagram is a starting point to any project where people can understand the main users and functionalities easily.

Activity diagram – Activity diagram comes under the category of behavioral diagrams. It show the flow of work in a particular functionality.
example:



v) wireframes – logo, search field, headers. navigation system, body, contact information, footer.

vi) B2B (business to business model)

unique features-

-User interfaces should be simple and easy to understand

-use more icons and images instead of words.

-navigations should be clearly shown.