Karunya INSTITUTE OF TECHNOLOGY AND SCIENCES
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SOFTWARE ENGINEERING LAB - 20CS2050

MODEL LAB

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REG NO: URK20CS2001

CLOTH SHOP MANAGEMENT SYSTEM

OBJECTIVE:

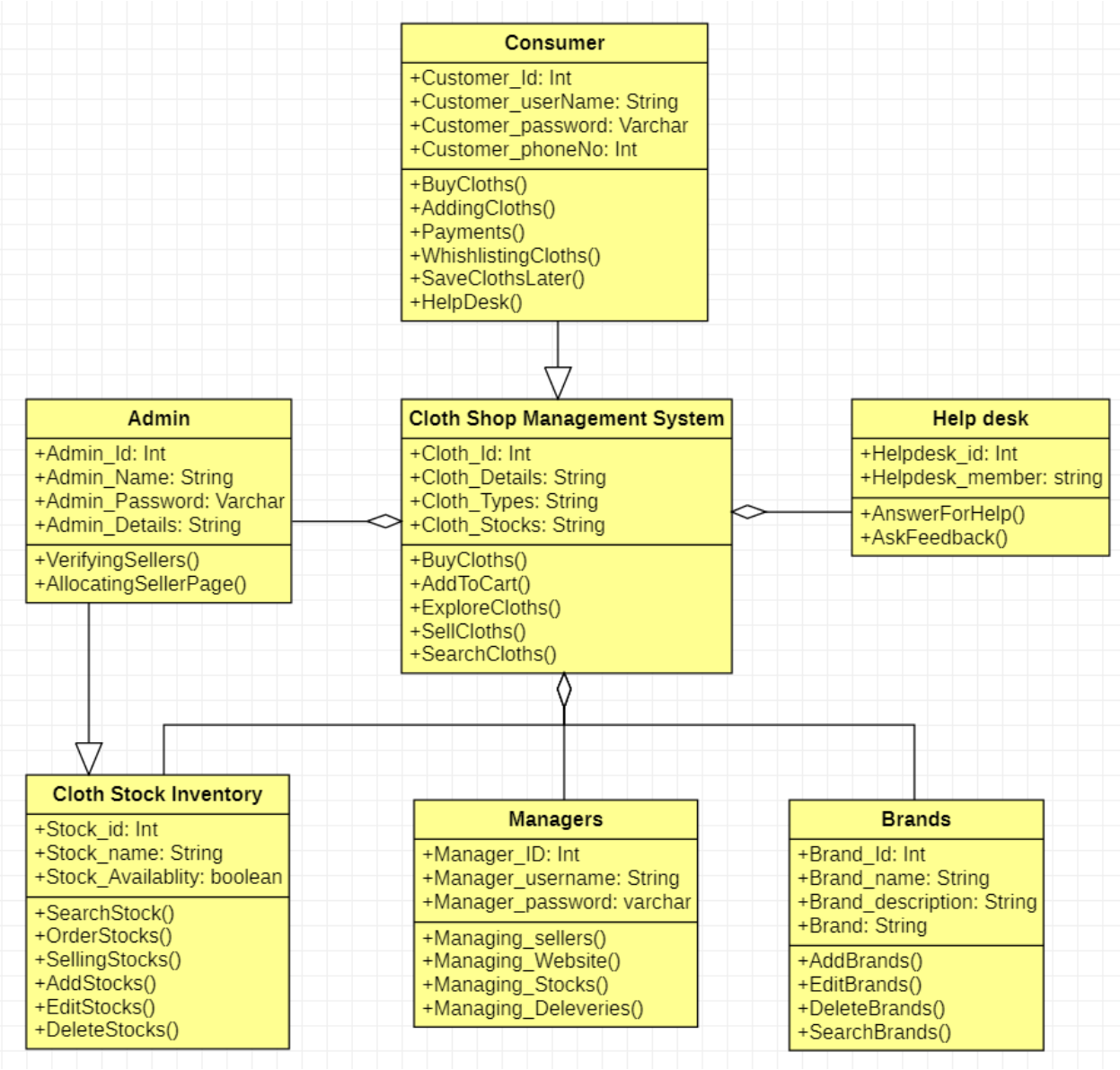
The object of this experiment is to create class diagram, COCOMO Calculation and the Website validation for the project **CLOTH SHOP MANAGEMENT SYSTEM**

DECRIPTION OF THE PROJECT MODULE (300 words):

The Description of this project is to create a cloth shop management system, here in this cloth shop management system, The users can buy and sell cloths each and everything has to be carried out by the Automated server. There are seven classes are connected by aggregation and the generalization, this class diagram has the basic functionalities of buying cloths, selling cloths from shops, manager is to managing the cloths and other functionalities like security and the databases. Here, this system has three interfaces namely, Application Interface, User Interface, and the Management Interface. Such interfaces are the main part of this Cloth Management System.

PART 1 – SPECIFIED DIAGRAM: (Start Time: 11:20AM | End Time: 11:40AM)

CLASS DIAGRAM:



Here, the class diagram for the Cloth Shop management system clearly states that the system has seven classes. Where the Cloth shop management system, help desk, admin, cloth stock inventory, managers, brands and the consumers.

PART 2- CALCULATION/TESTING: (Start time: 11:45 to 12:00PM)

COCOMO MODEL (Website Validation):

YOUR BASIC COCOMO RESULTS!!

MODE	"A" variable	"B" variable	"C" variable	"D" variable	KLOC	EFFORT, (in person/months)	DURATION, (in months)	STAFFING, (recommended)
semi-detached	3	1.12	2.5	0.35	4	14.171911937154366	6.323244346879388	2.2412405973443694

Explanation: The coefficients are set according to the project mode selected on the previous page, (as per Boehm,81). The final estimates are determined in the following manner:

effort =a*KLOC^{b}, in person/months, with KLOC = lines of code, (in the thousands), and:

duration =c*effort^{d}, finally:

staffing =effort/duration

For further reading, see Boehm, "Software Engineering Econimics",(81)

WARNING: If you see "NaN" in any field above, you have entered an **INVALID** value for KLOC!! Hit the "BACK" button on your browser, hit the "RESET" button, and enter a **DECIMAL NUMBER** in the KLOC input text box!

Thank you, and happy software engineering!

MANUAL CALCULATION (Semi Detached Mode):

KLOC = 4

Effort = a*KLOC^{b} = 3*4$^{1.12}$ =3*4.7239 = 14.17

Duration = c*effort^{d} = 2.5*14.17$^{0.35}$ = 6.32

Staffing = effort/duration = 14.17/6.32 = 2.24

VIDEO EXPLAINATION TIMING:

Start time: 12:20PM

End time: 12:24PM

RESULT:

Thus, the class diagram, COCOMO model manual calculation and website validation for the project **CLOTH SHOP MANAGEMENT SYSTEM** is carried out successfully.