



PES UNIVERSITY, BANGALORE

Department of Computer Science and Engineering

Team-Details:

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ATM SIMULATOR

Problem Statement – 2:

Proceeding as planned

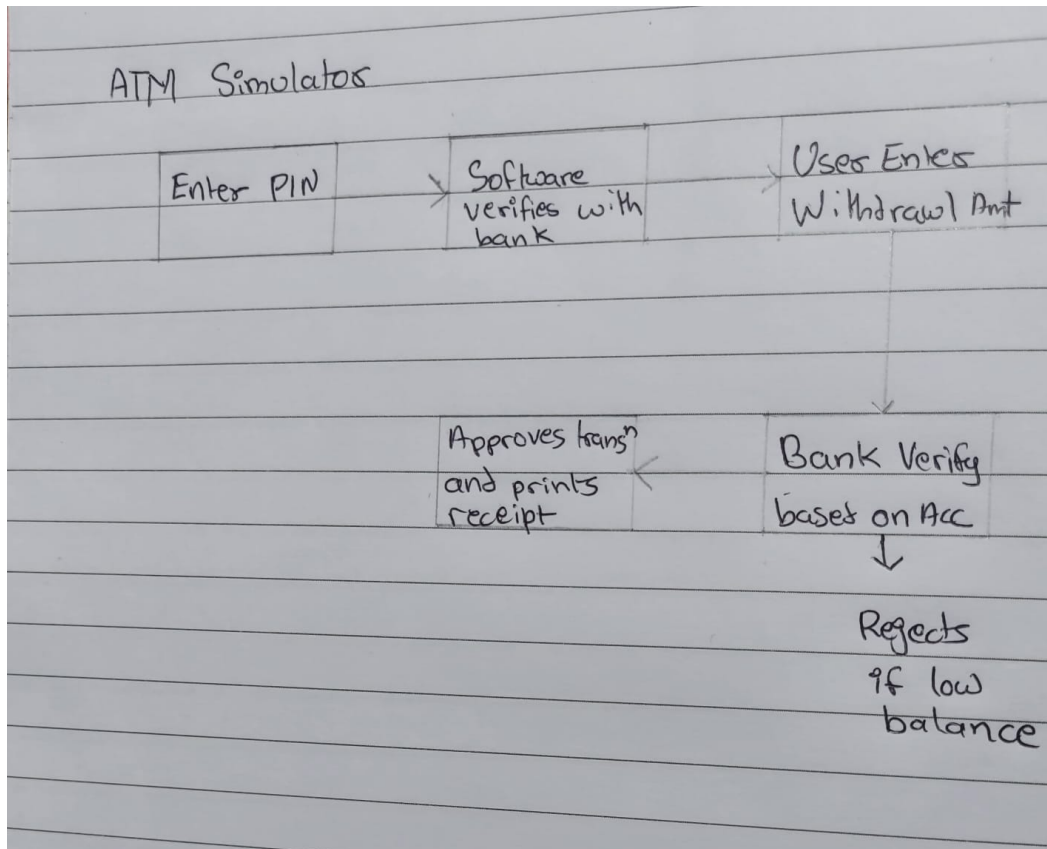
Measures	Metrics
Effort Expenditure	Efforts put by our team on their four individual functionalities is as follows, From cocomo model for semi detached projects $\text{Effort} = a * (\text{KLOC})^b$ $b = 7$ person months
Estimated Productivity	$\text{KLOC} = 1.5$ $\text{Effort} = 7$ person months $\text{Productivity} = \text{KLOC} / \text{Effort} = 1.5 / 7 = 21.4\%$

Technical Quality

Measures	Metrics
Lines Of Code	Average of 1.5 KLOC generated by each member for their respective functionalities
No of Code errors	Approximately 200 syntax and semantic errors per KLOC

FLURPS+:

Property	Evaluation
Functionality	Login,Authorization,withdrawing, Bank Account Balance Check,ATM pin modification
Localisablity	Supports only English at the moment
Usability	This software can be accessed by any user
Reliability	Mean time to failure = Number of operational hours / Number of failues = 10 hours / 4 failures = 2.5
Performance	Throughput = Work In Progress/cycle time Work in progress is calculated as number of tasks completed Cycle time is measured in weeks Throughput = $12(\text{Total tasks})/2 \text{ weeks} = 6 \text{ tasks}$
Supportability	Code fixes during outages



Problem Statement – 4:

Documentation:

It helps keep track of progress of projects. It improves efficiency and helps reach a final goal easily.

- a) Proper documentation leads to less confusion among team members and helps define progress and goals clearly
- b) Helps understand and execute the requirements of Users in a timely manner
- c) Functionalities and working of the system becomes easier to comprehend with better documentation.

Software Management Tool:

A software management tool is used to track progress and help organize the processes defined.

- a) Helps in identifying functions that are yet to be implemented and keeps track of completed functionalities.
- b) Tools can help in allotting tasks to each team member, to make sure all team members are taking up tasks which they specialize in.
- c) Allows members to spend less time explaining how things are done and more time executing it.
- d) This tool can also help in Version Management and Bug Management.

Metrics and Measurement:

Estimate project parameters to calculate costs and prevent changes in schedule and functionalities

- a) It helps improve the quality of projects.
- b) Quantifies some of the attributes to help improve the product.
- c) Helps companies understand their strengths and weaknesses and helps improve it by getting higher CCM levels