

Class Test - 3 (IT632)

Duration: 50 minutes

1. Bharat Interface for Money (BHIM) is a payment app that lets you make simple, easy and quick transactions using Unified Payments Interface (UPI). You can make direct bank payments to anyone on UPI using their UPI ID or scanning their QR with the BHIM app. You can also request money through the app from a UPI ID. BHIM is a unique payment solution which can be used without internet as well. You can dial *99# from any phone and avail the same features of BHIM on your mobile screen. You can also register for BHIM using *99#. Use your experience with using BHIM app(or any similar payments app) for providing your software design as follows. For the given BHIM system specifications, do the following.

Construct UML 2.x use-case model, textual representation of use-case for completing a UPI payment, system sequence diagram, and sequence diagram depicting the scenario of receiving payments through BHIM app. (4+6+5+5)

2. Answer the following briefly. (3x5)
 1. What are three levels of system testing beginning from development team to client finally agreeing to the developed software product? What differentiates one from other?
 2. Differentiate: Incremental vs Phased Integration testing.
 3. How are black box and white box testing different? List commonly used methods to design test cases using each of the testing methodology.
 4. Summarise the characteristics of different models vs mode in the CoCoMo estimation?!
 5. What is delphi estimation? Why it is preferred in comparison to an expert judgement estimation model?