

Course Code : CSE 404

Course Title : Software Engineering and ISD Laboratory

Project name: Bus ticket booking management system

Experiment no: 05

Experiment name: Application of Software Development Models: Incremental

model, Iterative model

#### **Submitted To**

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### Group: 02

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Incremental model:

Inetremental model involves developing the system in small manageable increements or iterations. Each iteration adds new features or functionalities to the system, building upon the previous version. This approaches for aontinous improvement, quick feed tack and the availability to adapt changing trequirements.

Inercemental model for banking system:
1st inercement.

1st increment includes basic account management, basic user management, basic

atm information. Locumentation decomentation, and increment: pa

Morce details about account user employee

documentation on preoduction capabilities,

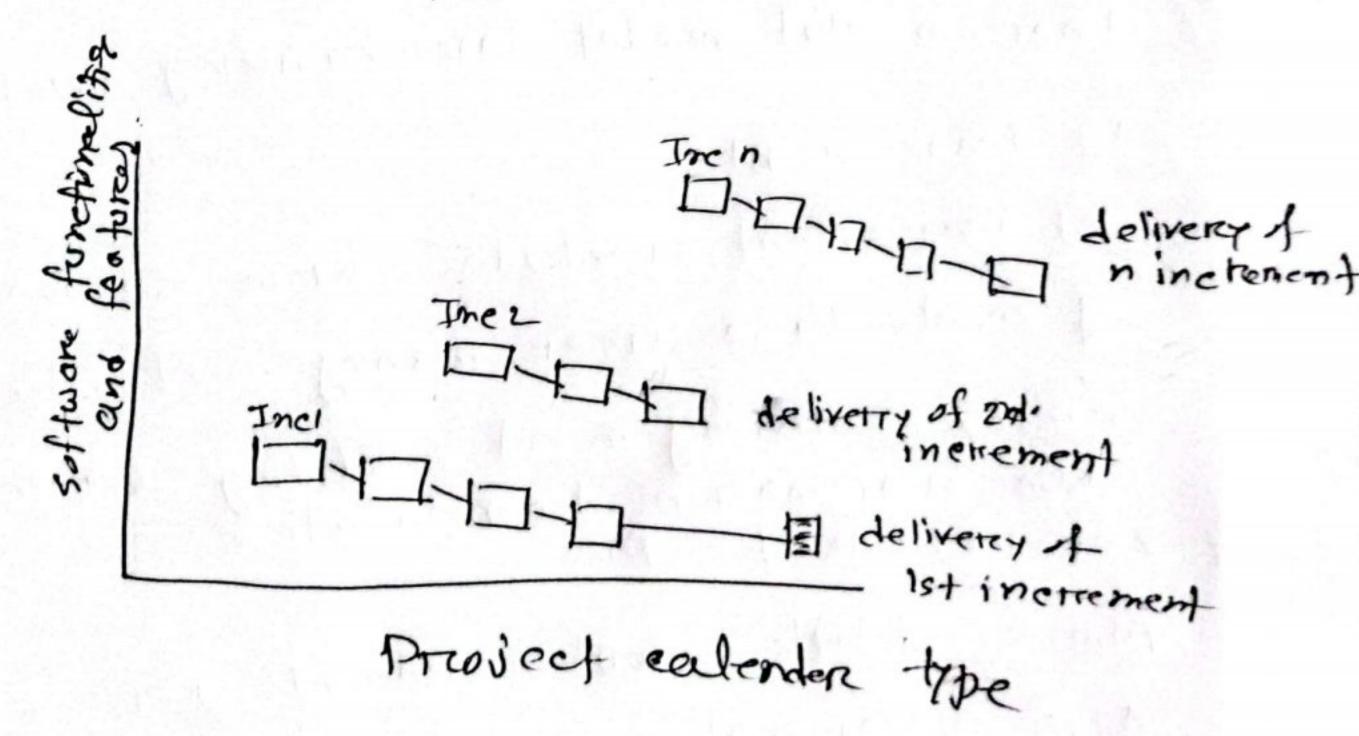
3rd increement:

spelling and grammar cheking that will update the software even morre,

# 4th inercement.

Advance face laport capabilities this step includes the complete software layout for the module which will sinclude:

- 1. software requirement.
- 2. Use case
- 3. Activity.
- 4. UML etc



Tama Shil ID: 342

The incremental model for bus-ticket management system-

#increment 1

#increment 1

code and test

to be communication planning Demodeling ment

for login and reg

Project calender type.

#increment?

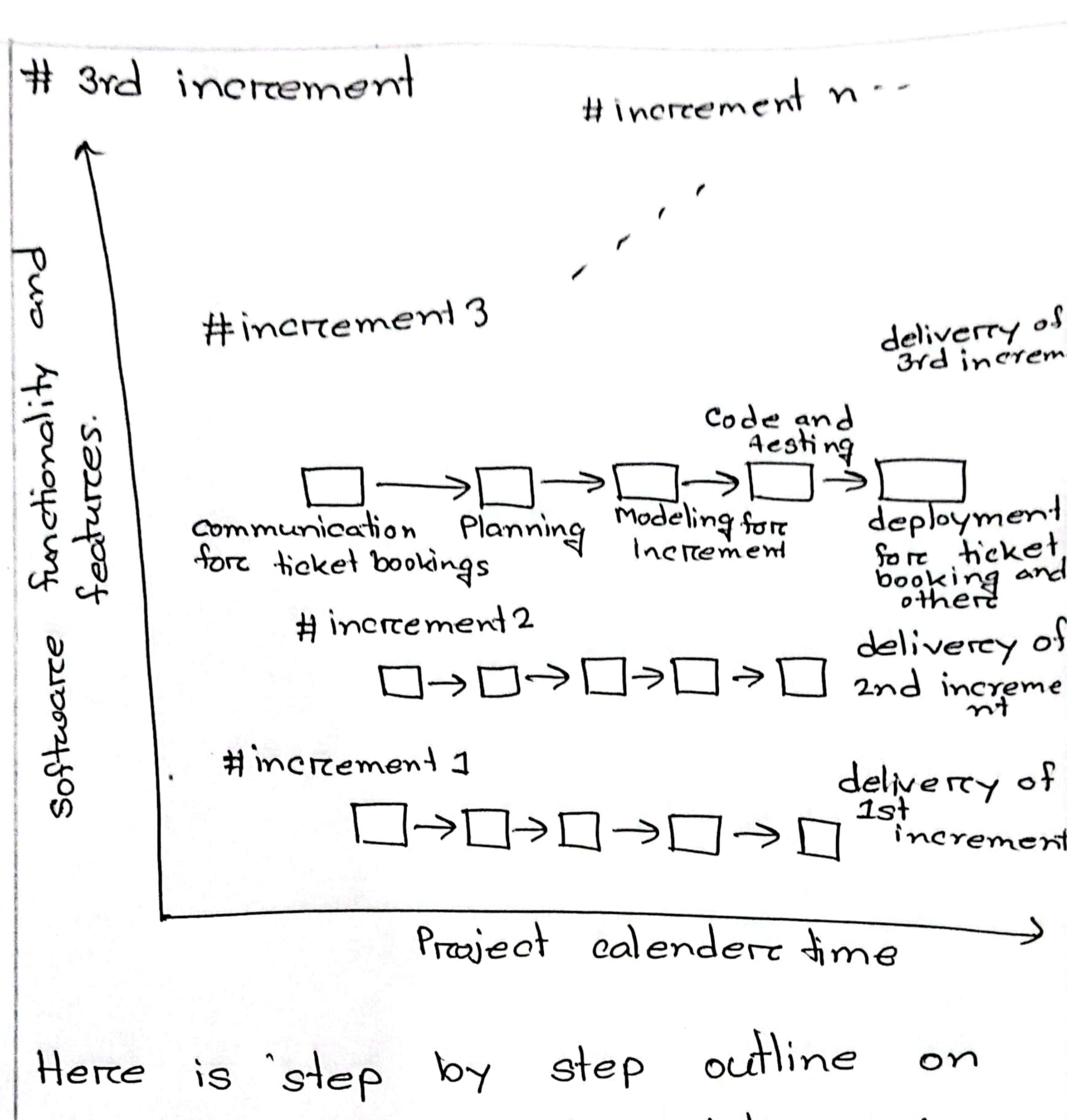
#increment?

modeling

communication Planning Codes Deployment
for bus and for incre test

#increment1

#increment1



Here is step by step outline on how the incremental model can be applied on Bus ticket booking management system.

2) Requirement gathering

Gathere all initial requirements fore the bus ticket booking management system. This includes underestanding needs of the buses, users and admins.

2) Design and planning Create high level design and architecture

for the system.

3) 1st increement

Based on the requirements the system starct the increment. This include-

-User login

- Userc registration.

4) and increement

Based on the feedback and additional requirements develop second increment.
This includes -

-Bus detail module add

- User Add and support details

- Exchancing existing functionalities

5) 3rd increment includes-

+ Spelling and greammer check

-Advance face layout

- Booking module implement

The increements will continue until final

Name: Prokash Maitra

Roll: 370

Project: Bus Ticket Management system

Parot: Iternative Model

Implementing the itexative Model in a Bus. Ticket Management system involves breaking down the development process into a series of iterative cycles, each focusing on specific. Functionality and Features.

- I. Requisement Gathering: Gather initial requirements From Stakeholders, including bus operators
- 2. Iteration-1-Basic Ticket Booking: In first iteration, focus on developing the core functionality of ticket booking.
  - 3. Iteration-2-User Management and Authentications In this itexation, add uses authentication and Management Jeatures. #Implement user registration

login and password recovery functionality. 4. Itexation-3-Seat Avalibility and Booking aptima Enhance the ticker booking system to display rocal-time seat availability. 5. Itoration-4. Payment Enhancement: Improve the payment garteways and methods. 5. Iteration-5- Reporting and Analytics: Implement reporting features for two operators and adminstrations to track ticket sales, revenue, and other performance metrics.

Nome: Muboshere Adnan Jihad Roll: 374

Implementing the iterrative model in a Bus Ticket Monagement system.

itercation. Focus on refining the user interface.

He system with bus operators integrations Integrate

iterration-9: Mobile App Development: Developa mobile application for passengers to book fickets on the go.

the system to support multiple languages consider accessibility features.

itercation-11: Security & scalability: focus on security enhancements to prestect usen obtained access.

itercation-12 of Feedback & User tecting of Grathers
feedback from stakeholders, bus operators and
end users.