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

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Incremental model:

Incremental model involves developing the system in small. manageable. increments or iterations. Each iteration adds new featvices or functionalities to the system, building upon the previous version. This approaches for continous improvement, quick feedback and the availabilty to adapt changing requirements.

Incremental model for banking system:

1st increment:

1st increment includes basic account management, basic user management, basic employee management, editing documentation, atm information. documentation.

2nd increment: pa

more details about account user employee, Atm information.

documentation on production capabilities,

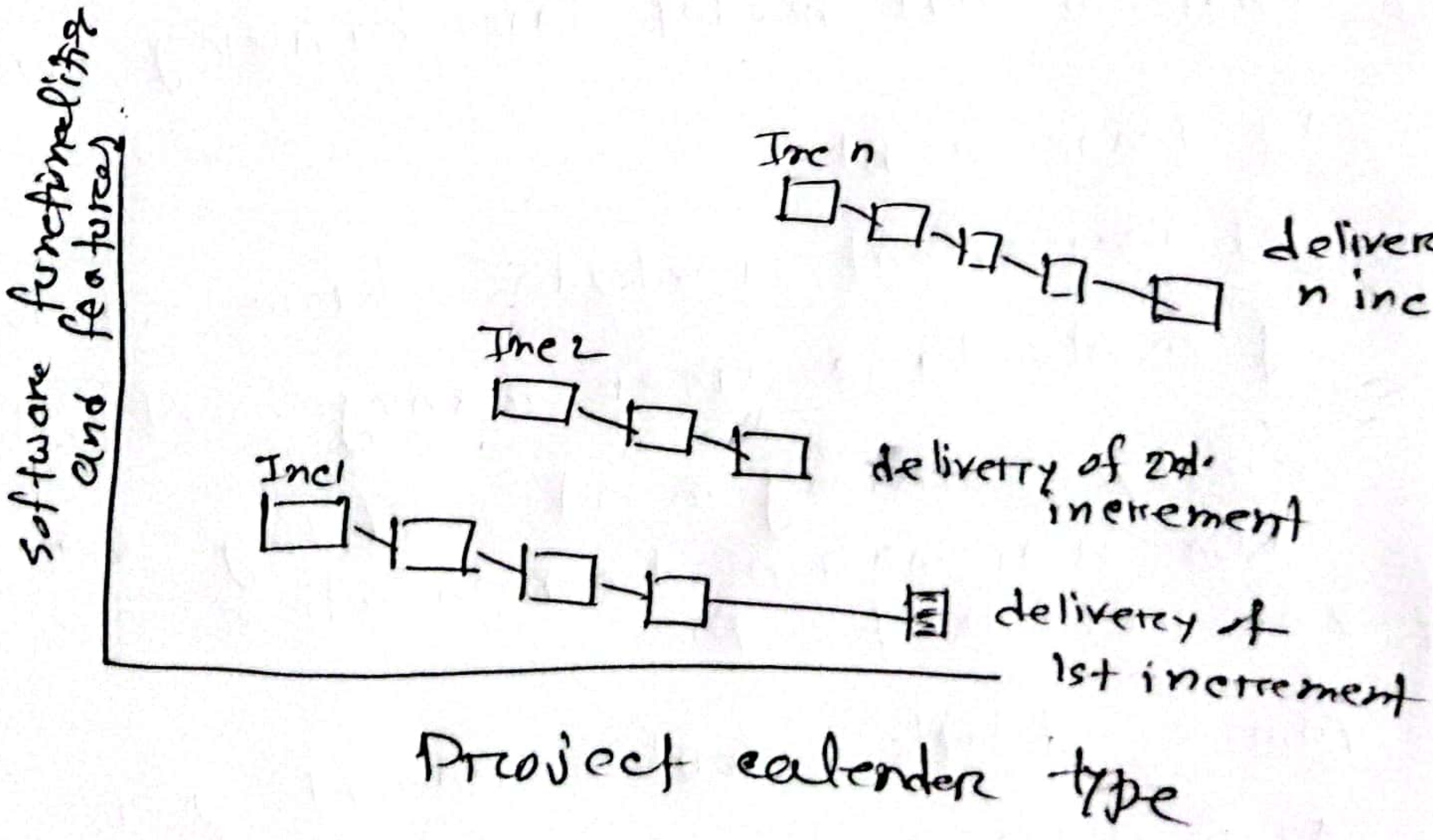
3rd increement:

Spelling and grammar checking that will update the softwatee even more,

4th increement:

Advance face layout capabilities. this step includes the complete software layout for the module. which will include:

1. Softwatee requirement.
2. Use case
3. Activity.
4. UML etc



Project calender type

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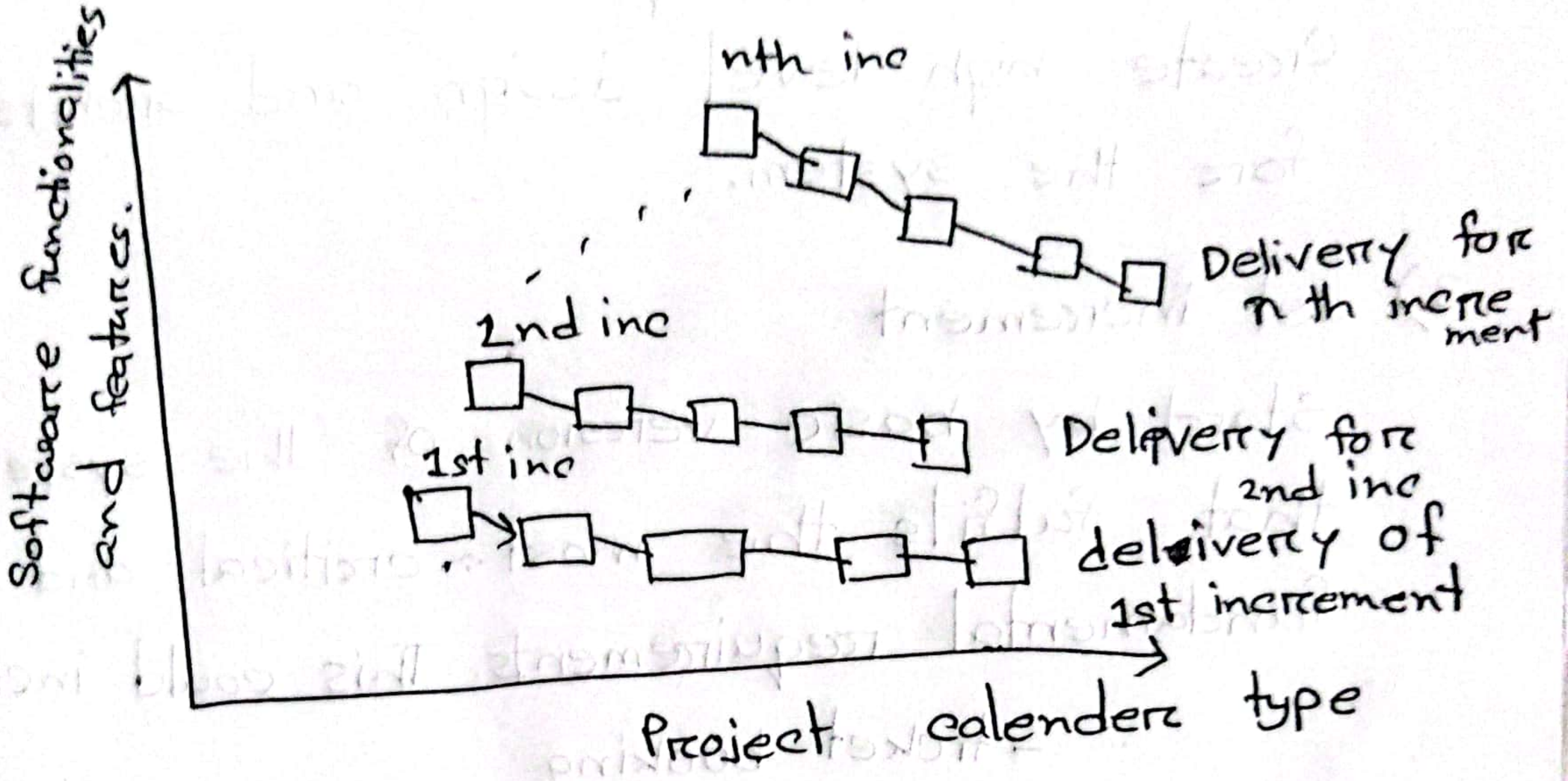
Incremental model for bus ticket booking management system -



Here is step by step outline on how the incremental model can be applied to bus ticket management system-

1) Requirement gathering

Gather all the initial requirements for the bus ticket management system. This includes understanding the needs of the bus company, ~~p~~.

- Bus
- Users
- Admin

2) Design and planning
Create high level design and architecture for the system.

3) 1st increment
Start by basic version of the system that fulfils the most critical and fundamental requirements. This could include-
- ticket booking
- seat selection
- Payment process.

4) 2nd increment
Based on the feedback and additional requirements, develop the second increment. This could include-
- enhancing existing functionalities
- supporting on different payment
- Documentations on production capabilities.

3rcd increment

spelling and grammerc checking of the system.

9th increment

Advance face layout capabilities. Ensurce that each increment integrates smoothly with the existing systems. The step includes the final look of the modules.

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Project : Bus Ticket Management System

Part : Iterative Model

Implementing the iterative 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.

1. Requirement 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 Authentication: In this iteration, add user authentication and Management features. Implement user registration,

login and password recovery functionality.

4. Iteration-3-Seat Availibility and Booking optimiz
Enhance the ticket booking system to displ
real-time seat availibility.

5. Iteration-4-Payment Enhancement: Improve
the payment system by adding support
for different payment gateways and methods.

6. Iteration-5-Reporting and Analytics: Implem
reporting features for bus operators and
administrations to track ticket sales, revenue,
and other performance metrics.

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Implementing the iterative model in a Bus Ticket Management system.

iteration-7: Refinement and Bug fixex: In this iteration, focus on refining the user interface.

iteration-8: Bus operator integration: Integrate the system with bus operator system

iteration-9: Mobile App Development: Develop a mobile application for passengers to book tickets on the go.

iteration 10: Accessibility & Localization: Enhance the system to support multiple language & consider accessibility features.

iteration-11: security & scalability: focus on security enhancements to protect user data and prevent unathorized accesl.

iteration-12: Feedback & User testing: Gather feedback from stakeholders, bus operators and end users.