Software Development Process

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CONTENT

01

Planning

PART 01

Requirements Gathering

01

Stakeholder

Interviews show clear needs and expectations

02

Surveys

Surveys reveal key user preferences

03

Market Res

Market trends shape strategy and positioning

04

Use Case

Use cases define requirements and interactions

Project Scope Definition

Aim & Goal

Clearly define project aims to ensure focused efforts

Timeline

Establish a schedule to track project milestones effectively

Deliverable

Specify tangible outcomes required for project completion

ResAlloc

Distribute necessary resources to optimize project execution

02

Design

PART 02

System Architecture

01

High-Level Design

Emphasizes system structure and component interactions

02

Low-Level Design

Implement algorithms efficiently with specific data structures

03

Tech Stack Choice

Select suitable tools, languages, and frameworks

04

Design Patterns

Reusable solutions for common software design issues

User Interface Design

Wireframing visualizes layout and functionality early on

Wireframe

01

Prototyping allows fast interactive testing of design ideas

Prototype

02

Usability testing evaluates user experience and identifies improvements

Usability

03

Accessibility makes designs usable for everyone, including disabled

Access Now

04

03

Development

PART 03

Coding Standards

Naming

Consistent naming improves code readability and maintenance

Version

Version control systems allow collaboration and rollback

Code Rev

Peer reviews enhance code quality and foster learning

Document

Good documentation improves code clarity and upkeep

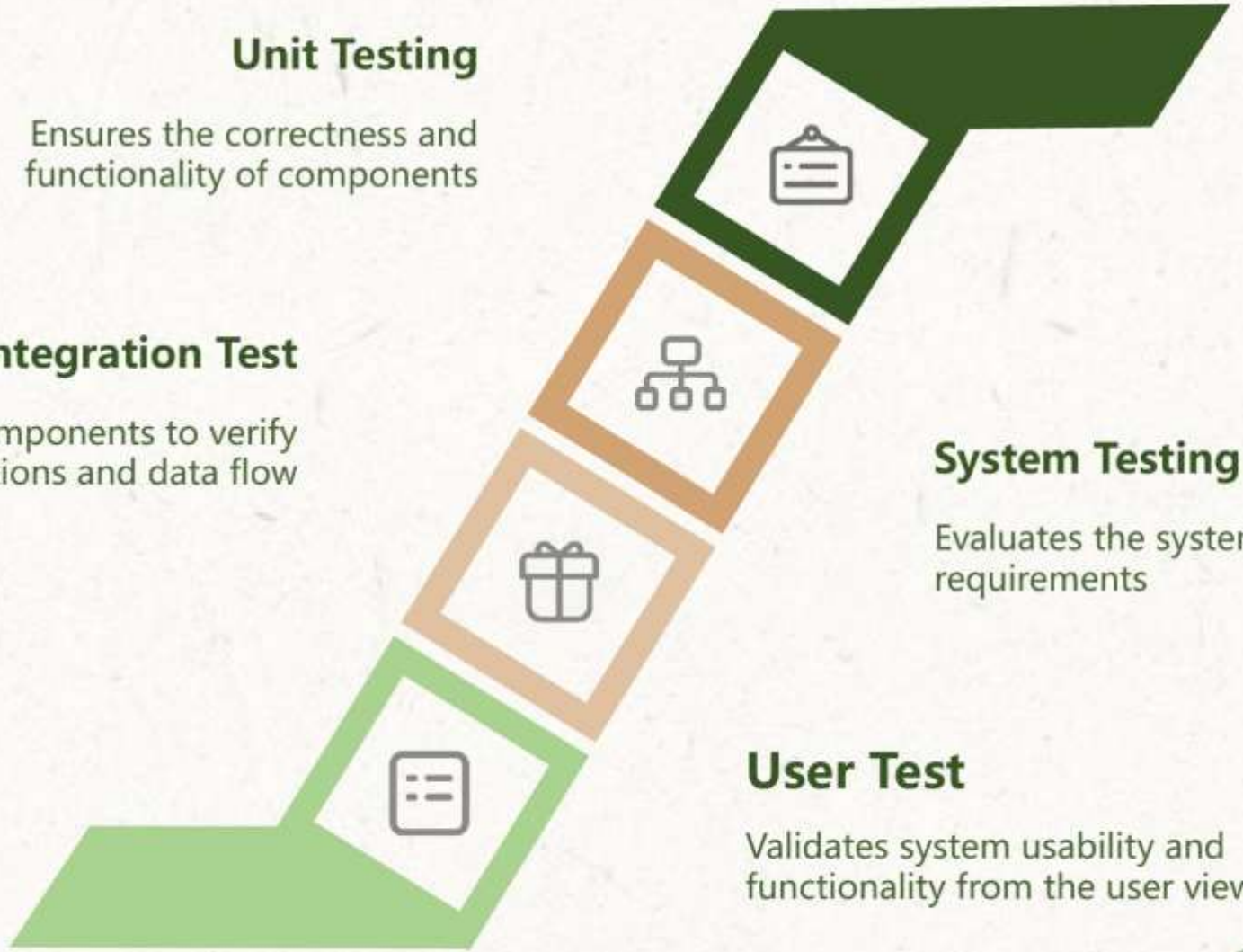
Testing

Unit Testing

Ensures the correctness and functionality of components

Integration Test

Combines components to verify interactions and data flow



System Testing

Evaluates the system's compliance with requirements

User Test

Validates system usability and functionality from the user view

04

Deployment

PART 04

Release Management

01

Deployment Methods

There are various methods to deploy applications effectively and efficiently

02

Rollback Procedures

Essential steps to revert to a previous stable version quickly

03

Env Config

Proper setup ensures consistent application behavior across stages

04

Monitor & Log

Continuous tracking and recording of application performance and issues

User Training

Training Docs

Guides and tutorials enhance user skills and knowledge

Feedback Needed

User insights improve training and resource relevance

01

02

03

04

Workshops

Interactive sessions boost hands-on, collaborative learning

Support Help

Help docs and contact options ensure support

05

Maintenance

PART 05

Bug Fixing

Issue Tracking

Effective issue tracking ensures quick bug resolution

Prioritization

Prioritization targets critical bugs impacting user experience

Patch Management

Patch management ensures software stability with systematic fixes

Regress Test

Regression testing ensures changes don't introduce new issues

Feature Enhancements

User Feedback Review

Analyzing user feedback helps identify key areas for improvement

Roadmap Planning

Strategic roadmap planning aligns feature enhancements with user needs

Iterative Dev

Iterative development allows for continuous improvement through user testing

THANKS