



TASK - #03

Waterfall Development Model for Personal Finance Management App

PHASES OF THE WATERFALL DEVELOPMENT MODEL

1. REQUIREMENTS GATHERING AND ANALYSIS -

- OBJECTIVE: DEFINE WHAT THE APP SHOULD DO.
- ACTIVITIES:
 - CONDUCT USER INTERVIEWS AND SURVEYS TO UNDERSTAND USER NEEDS (E.G., BUDGETING, EXPENSE TRACKING, INVESTMENT MANAGEMENT).
 - IDENTIFY KEY FEATURES (E.G., INCOME TRACKING, BILL REMINDERS, FINANCIAL GOAL SETTING).
 - DOCUMENT REQUIREMENTS IN A CLEAR AND DETAILED MANNER.

2. SYSTEM DESIGN -

- OBJECTIVE: PLAN THE ARCHITECTURE AND USER INTERFACE OF THE APP.
- ACTIVITIES:
 - CREATE WIREFRAMES AND MOCKUPS FOR THE USER INTERFACE.
 - DESIGN THE DATABASE SCHEMA TO HANDLE USER DATA SECURELY.
 - DEFINE THE OVERALL SYSTEM ARCHITECTURE, INCLUDING INTEGRATIONS WITH BANKING APIS OR THIRD-PARTY SERVICES.

3. IMPLEMENTATION (CODING) -

- **OBJECTIVE: DEVELOP THE ACTUAL APPLICATION BASED ON THE DESIGN SPECIFICATIONS.**
- **ACTIVITIES:**
 - **WRITE CODE FOR THE APP'S FRONTEND AND BACKEND COMPONENTS.**
 - **IMPLEMENT FEATURES LIKE USER AUTHENTICATION, DATA ENCRYPTION, AND TRANSACTION TRACKING.**
 - **ENSURE THAT THE CODE ADHERES TO BEST PRACTICES FOR SECURITY AND PERFORMANCE.**

4. INTEGRATION AND TESTING

- **OBJECTIVE: ENSURE THAT ALL COMPONENTS WORK TOGETHER AS INTENDED.**
- **ACTIVITIES:**
 - **PERFORM UNIT TESTING TO CHECK INDIVIDUAL COMPONENTS.**
 - **CONDUCT INTEGRATION TESTING TO ENSURE THAT FEATURES WORK TOGETHER (E.G., EXPENSE TRACKING INTEGRATES SMOOTHLY WITH BUDGETING).**
 - **EXECUTE USER ACCEPTANCE TESTING (UAT) WITH REAL USERS TO VALIDATE FUNCTIONALITY AND USABILITY.**

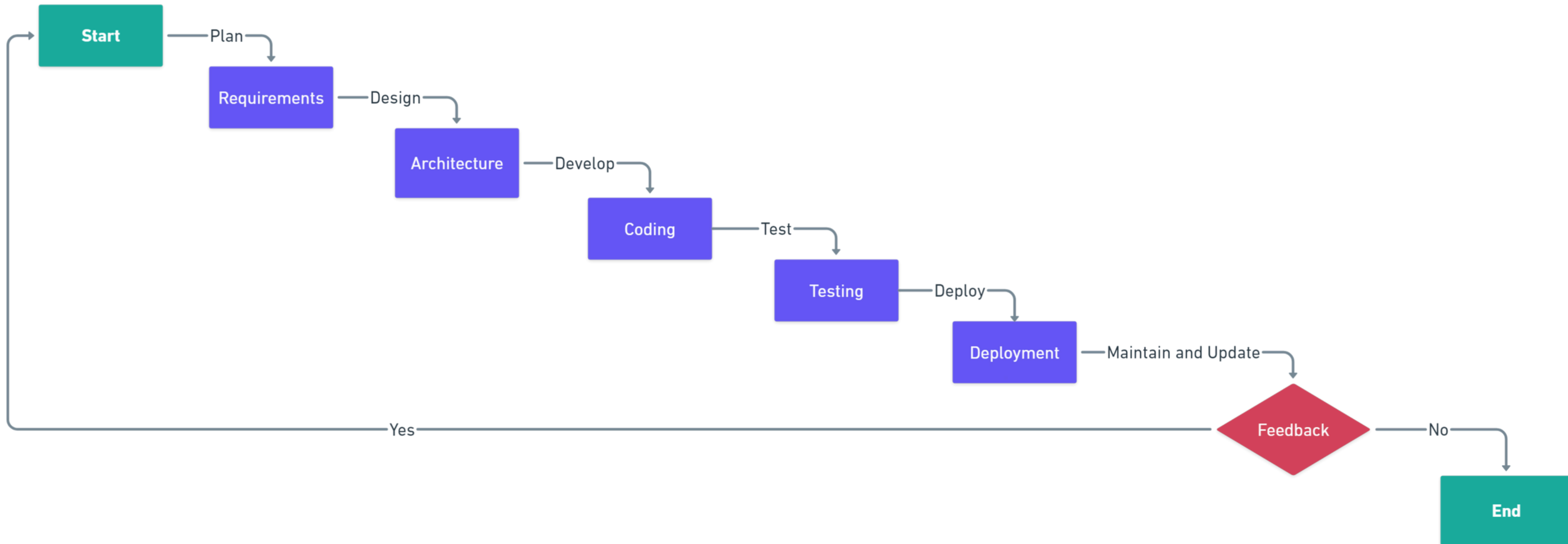
5. DEPLOYMENT

- OBJECTIVE: RELEASE THE APP TO USERS.
- ACTIVITIES:
 - DEPLOY THE APP TO APP STORES (E.G., APPLE APP STORE, GOOGLE PLAY).
 - SET UP THE NECESSARY INFRASTRUCTURE (SERVERS, DATABASES) FOR THE LIVE ENVIRONMENT.
 - MONITOR THE DEPLOYMENT FOR ANY IMMEDIATE ISSUES.

6. MAINTENANCE AND SUPPORT

- OBJECTIVE: KEEP THE APP FUNCTIONING AND UP-TO-DATE.
- ACTIVITIES:
 - ADDRESS USER FEEDBACK AND BUG REPORTS.
 - PROVIDE REGULAR UPDATES WITH NEW FEATURES OR IMPROVEMENTS.
 - ENSURE COMPLIANCE WITH FINANCIAL REGULATIONS AND SECURITY STANDARDS.

WATERFALL DEVELOPMENT MODEL FOR PERSONAL FINANCE MANAGEMENT APP -



THANK

YOU