

Different types of approach

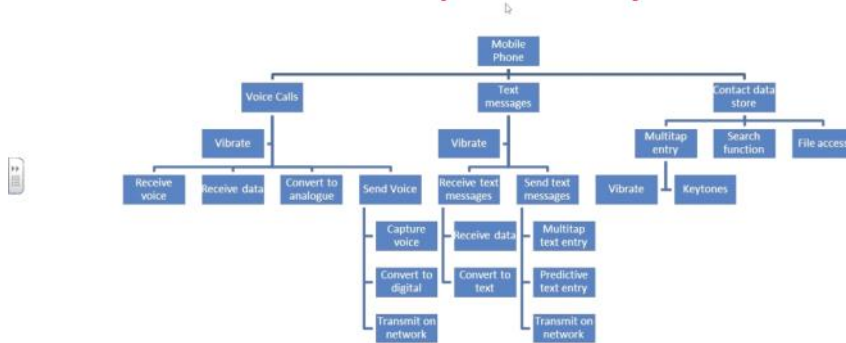
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A top-down approach is a method where directives, strategies, and decisions flow from a higher level of authority downwards through an organization or system to lower levels

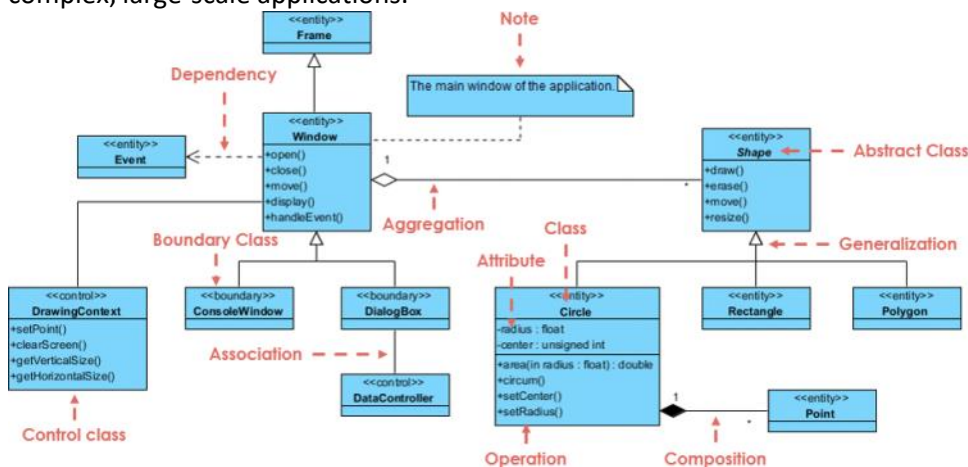
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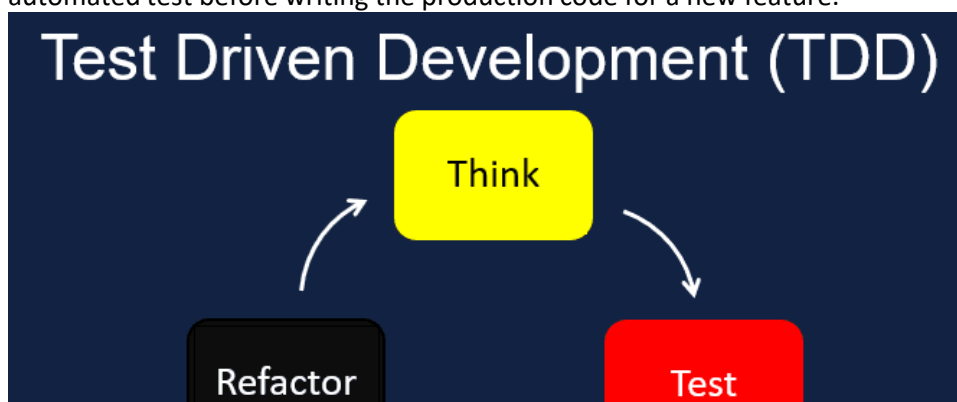
A Mobile phone system



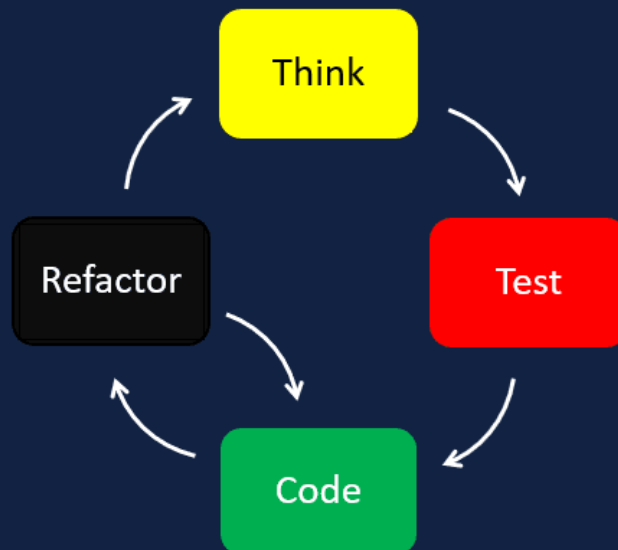
An OOP (Object-Oriented Programming) approach is a programming paradigm that structures software around objects—self-contained units that combine data (attributes) and functions (methods) that operate on that data. It organizes programs by modelling real-world entities and their interactions, with key principles including encapsulation, inheritance, polymorphism, and abstraction. This approach promotes code reusability, modularity, and easier maintenance for complex, large-scale applications.



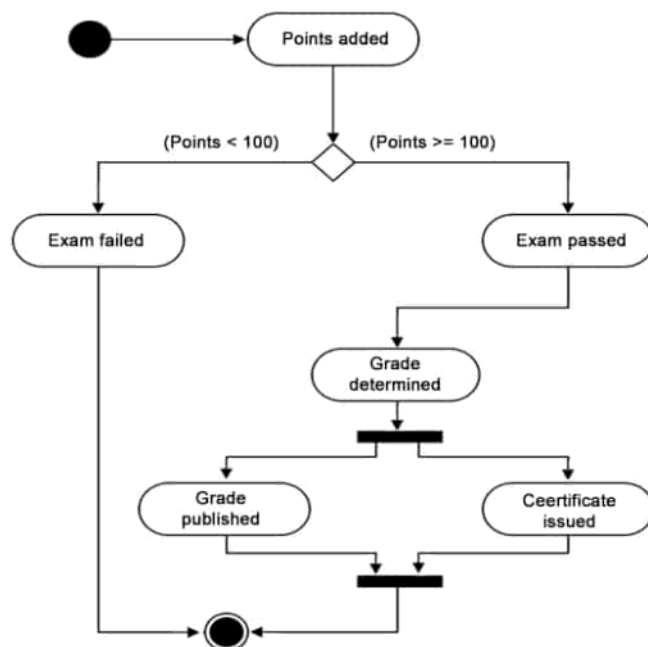
A Test-Driven Development (TDD) approach is a software development method where you write an automated test before writing the production code for a new feature.



Test Driven Development (TDD)

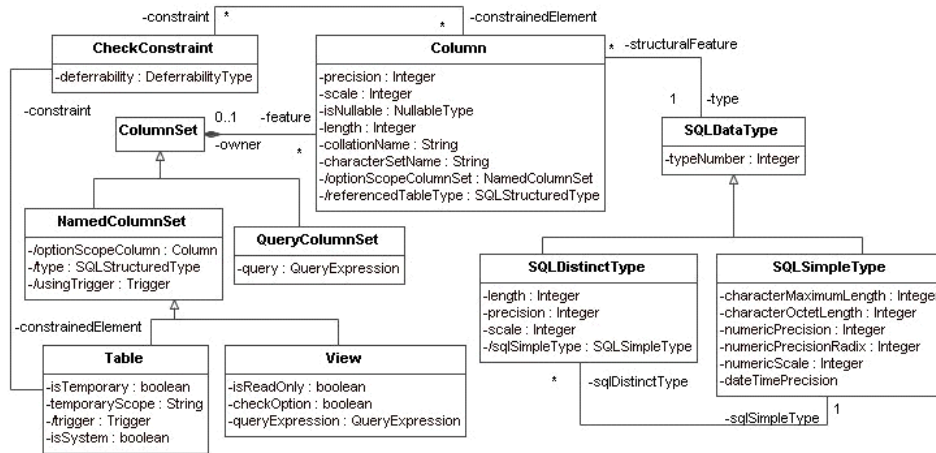


The BDD (Behaviour-Driven Development) approach is a software development methodology that fosters collaboration among business stakeholders, developers, and testers ("the Three Amigos") to create shared understanding of software requirements through plain-language scenarios. These human-readable scenarios, often written in the Gherkin format using Given-When-Then statements, document the system's desired behaviour from a user's perspective. The core idea is to define behaviour first, using these examples to guide development and automate tests, ensuring the final product aligns with business goals and user expectations.



An "RDB approach" can refer to different technical or strategic concepts, most commonly the Redis Database (RDB) snapshot method for data persistence, which creates point-in-time backups of data for disaster recovery and faster restarts. It can also describe the Resonance, Differentiation, and Belief (RDB) marketing strategy focused on building strong brand connections, or a method in the Pega platform for executing direct SQL queries against external databases. Other uses include a

Relational Database to OWL (RDB2OWL) mapping approach for transforming data into semantic web formats and the specific RDB format for tabular data used in some software.



A functional design approach prioritizes a system's usability, efficiency, and the fulfilment of its core purpose over aesthetics or cost. It involves defining functional requirements and user needs, designing a streamlined and intuitive user experience, and verifying the system's performance through user testing to ensure it effectively serves its intended functions. This approach forms the foundation for detailed design, transforming conceptual ideas into a tangible, working solution.

