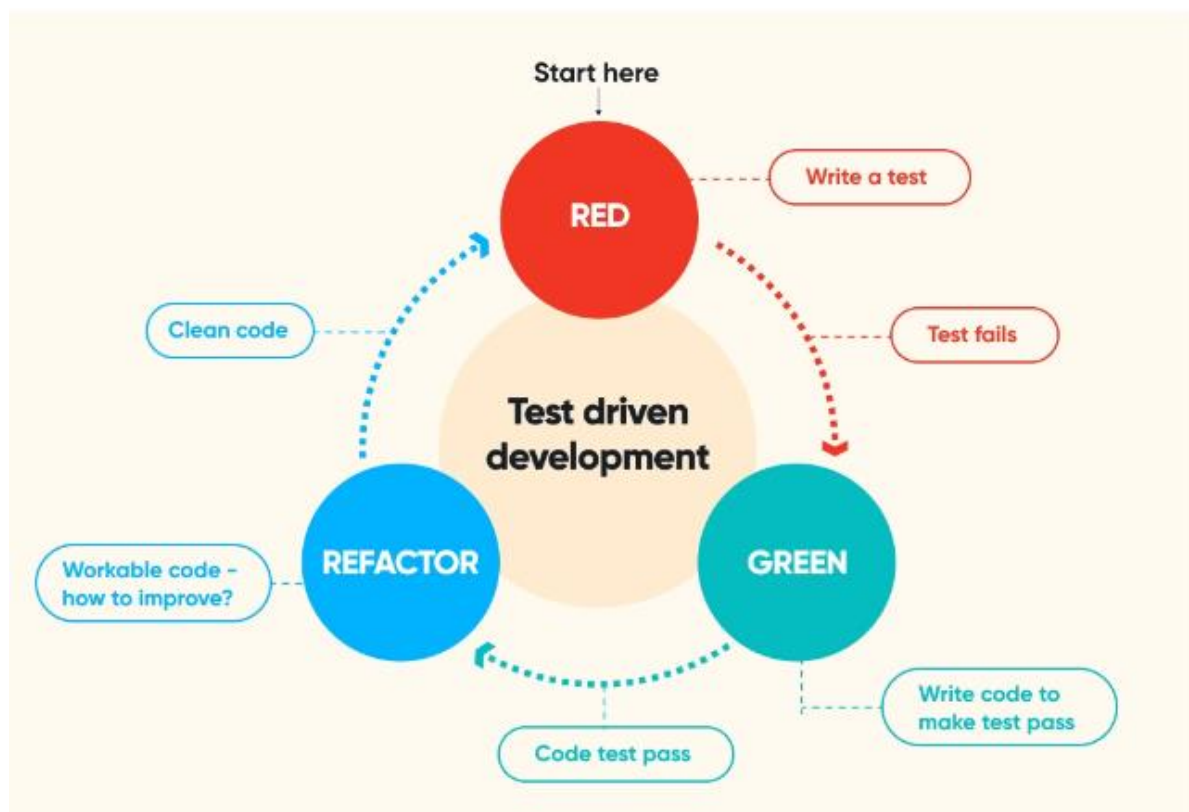


Assignment 2: Produce a comparative infographic of TDD, BDD, and FDD methodologies. Illustrate their unique approaches, benefits, and suitability for different software development contexts. Use visuals to enhance understanding.

Here is a comparative infographic of TDD, BDD, and FDD methodologies:

TDD(Test Driven Development)

- Unique approach: Write tests before production code.
- Benefits:
 - Helps create lean, reusable, and automatable code.
 - Reduces costs and makes refactoring easier.
- Suitability: Small projects and conservative iteration.



Advantages & disadvantages of Test Driven Development

Advantages

- Faster development
- Clean code
- Clear documentation
- Fewer bugs
- Tighter code

Disadvantages

- Development teams may lose the sense of a broader picture
- TDD can be a challenge for developers who're used to writing code first
- Slow development time
- Developers may have a false sense of security
- Maintenance becomes difficult as the project grows

Best TDD frameworks



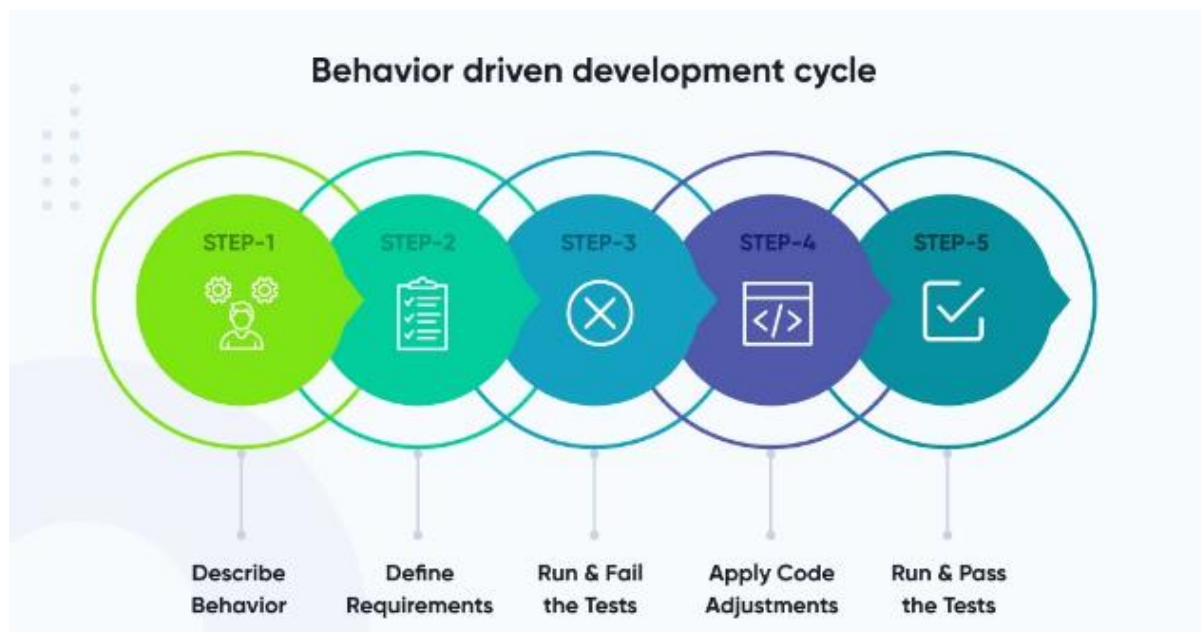
BDD(Behaviour-Driven Development)

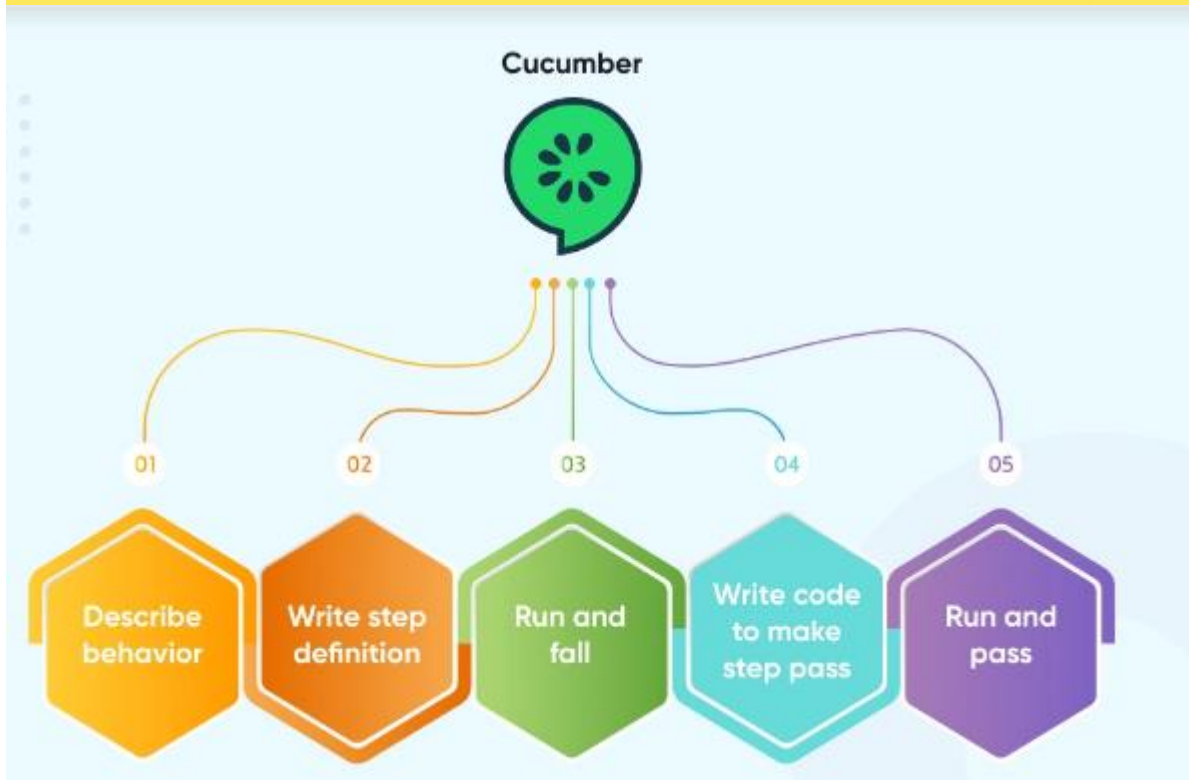
- Unique approach:

Focus on the behavioral aspects of a system, rather than the implementation aspects.

- Benefits:
- Helps developers and customers understand what the system should do.
- Reduces confusion about acceptance criteria.
- Identifies potential problems with user stories early.
- Suitability:

Any project where it is important to understand and validate the behavior of the system from the user's perspective.





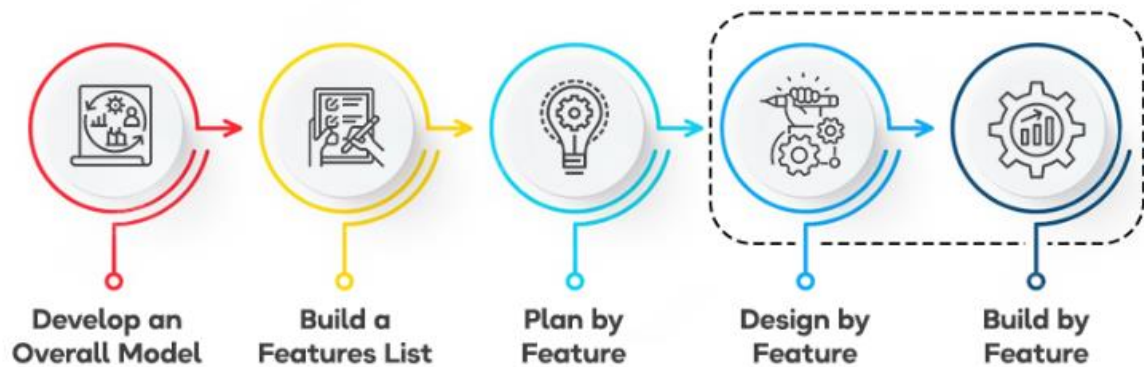
KEY ADVANTAGES OF BDD



FDD(Feature Driven Development)

- Unique approach: Focus on feature-based development, with sprints, teams, and delivery based on features.
- Benefits:
 - Promotes close collaboration between product owners and stakeholders.
 - Approaches development goals from the top down.
- Suitability: Large and complex projects.

FEATURE DRIVEN DEVELOPMENT (FDD) PROCESS



Feature-driven development (FDD)

Advantages

- ▲ Clear picture of project scope
- ▲ User-centric approach
- ▲ Works good with long projects and large teams
- ▲ Decreased need for meetings

Disadvantages

- ▲ Doesn't work good with small projects
- ▲ Dependence on lead developers
- ▲ No written documentation to the client