

RAD: Rapid Application Development

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PREPARED FOR

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(SPM)

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RAD: Rapid Application Development

- RAD (Rapid Application Development) Model is a sequential software development process model that works like an incremental or waterfall model.
- The use of the RAD model is mostly used there to understand the requirement or it is used in making small projects.
- If the requirements that you have are well understood by you and are not changing with time.
- So you can use this model.
- And the project can be developed very easily on time.

RAD: Rapid Application Development

- RAD (Rapid Application Development) Model is a process by which the project is developed fast and the quality of the project is good.
- Very few errors have to be faced in this model.
- By using the RAD (Rapid Application Development) model, it helps to develop the project on time, but before starting the project,
- you should have all the requirements and the requirements should not change.

RAD: Rapid Application Development

- Within this model, we can easily reuse all the components, code, tools, and processes of the project.
- And the “Automated Code Generate Tool” is not used inside it.

RAD: PHASE

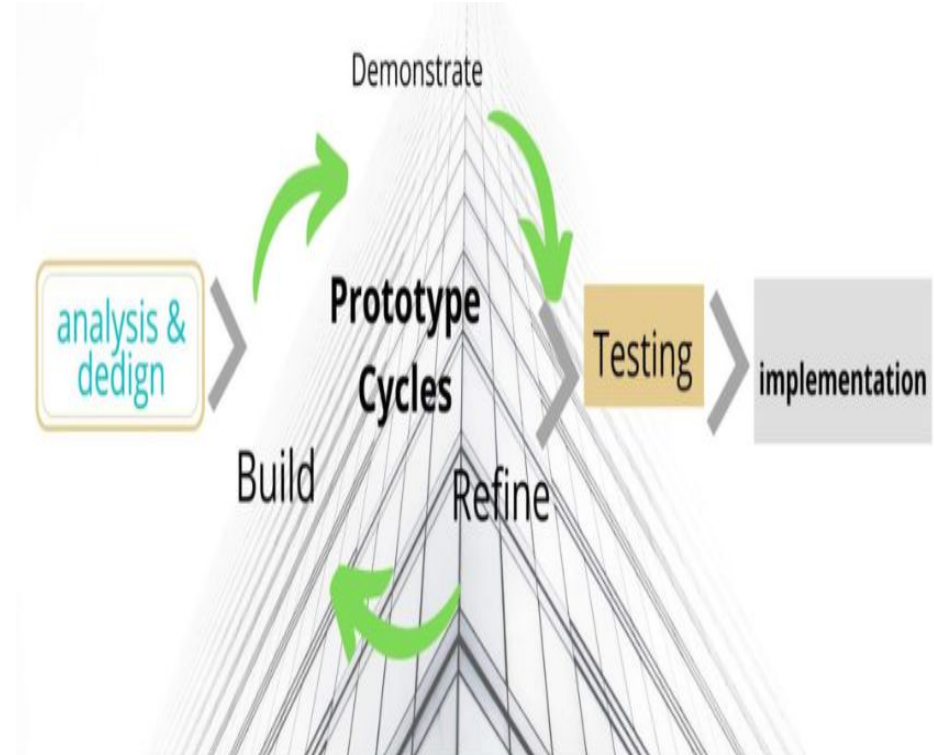
RAD (Rapid Application Development) Model five phase

- **Business Modeling:**
- **Data Modeling:**
- **Process Modeling**
- **Application Generation**
- **Testing and Turnover**

RAD: Rapid Application Development

1. Business Modeling:-

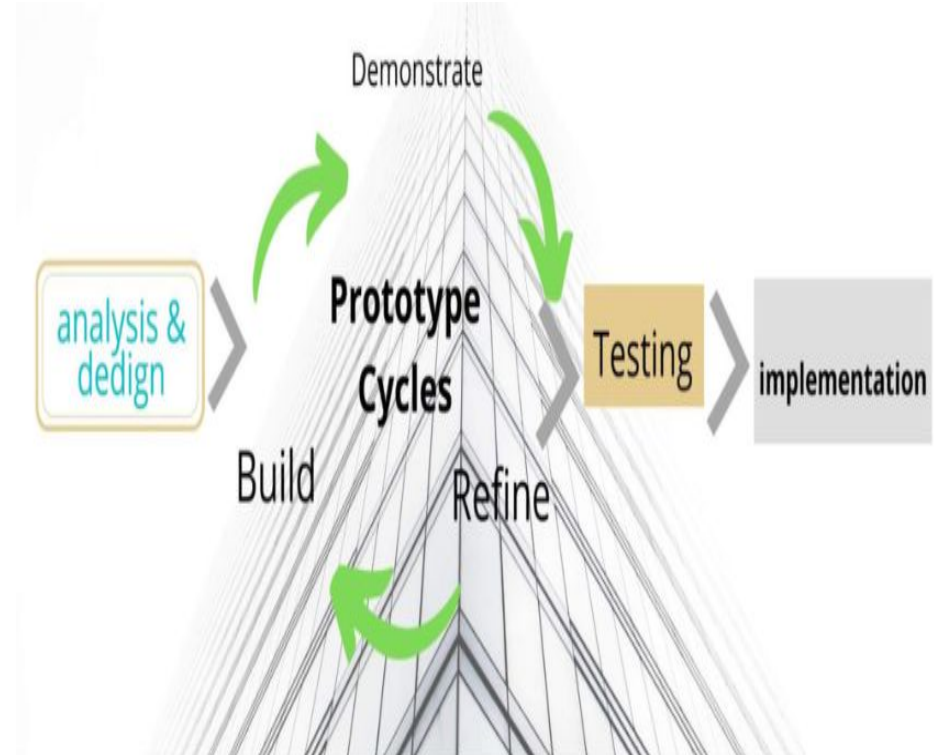
- In order to prepare the business model inside Business Modeling, the business model is prepared on the basis of information through many business processes.
- In which some business functions are defined by sharing information.
- Before starting the development process of any project, all the business functions of that project are properly analyzed.



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2. Data Modeling:-

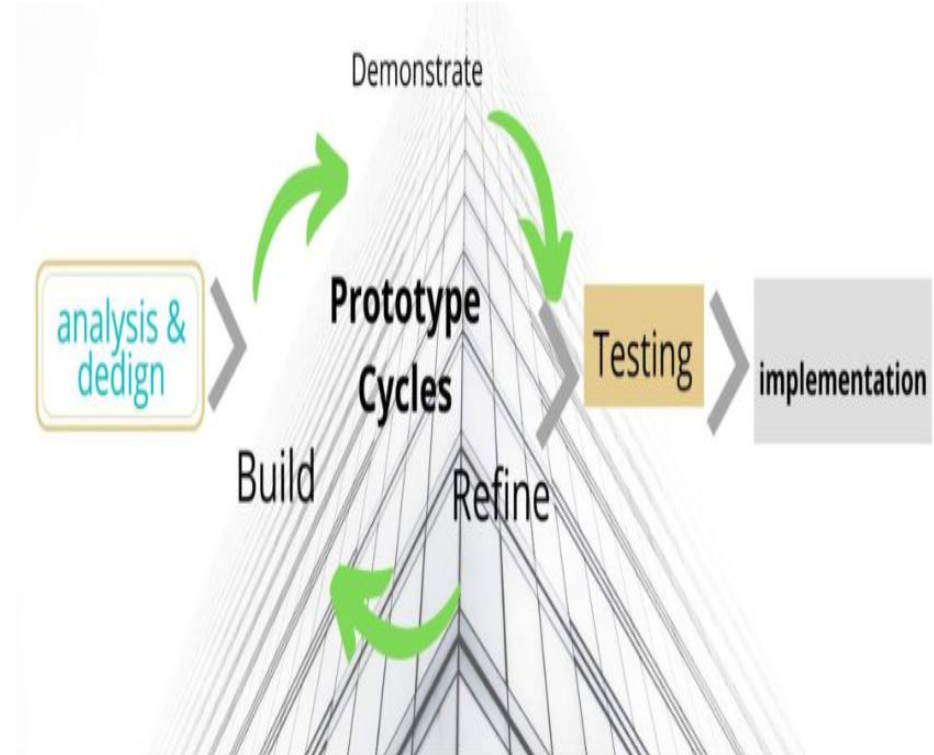
- Within Data Modeling, the data object of the data collected by business modeling is defined in a set.
- Whatever information has been collected.
- From that information, it is very important to support the business.



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3:- Process Modeling:-

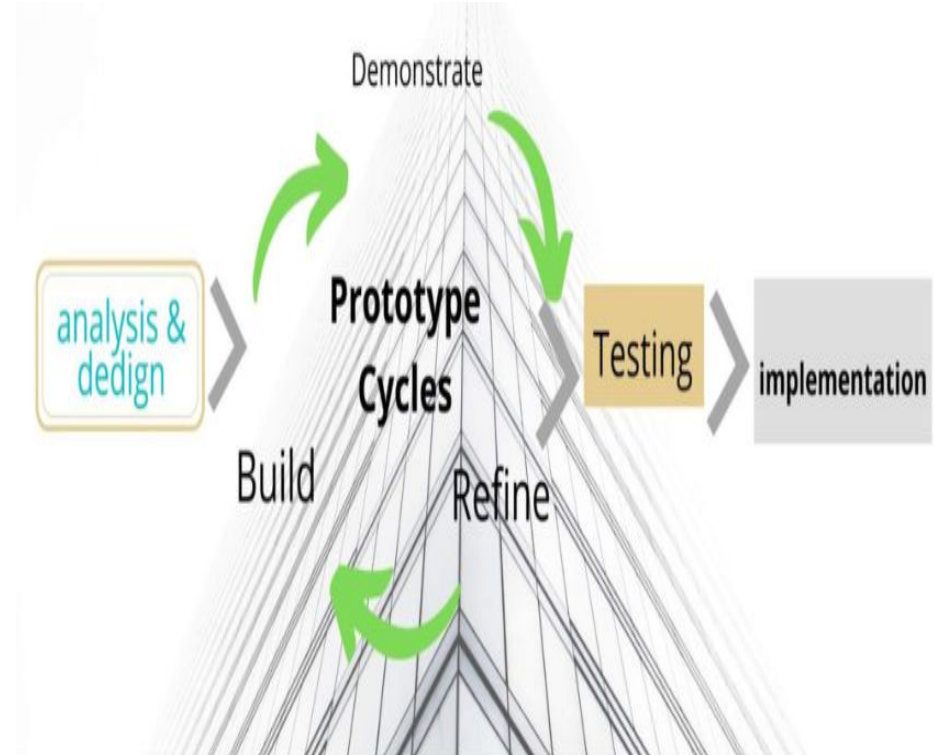
- The data object information that was defined within the data modeling phase.
- By transforming all that information, business goals are accomplished through the business model.
- Within this phase, there is a complete process of adding the data object, analyzing it properly, deleting or getting the data again.



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4:- Application Generation:-

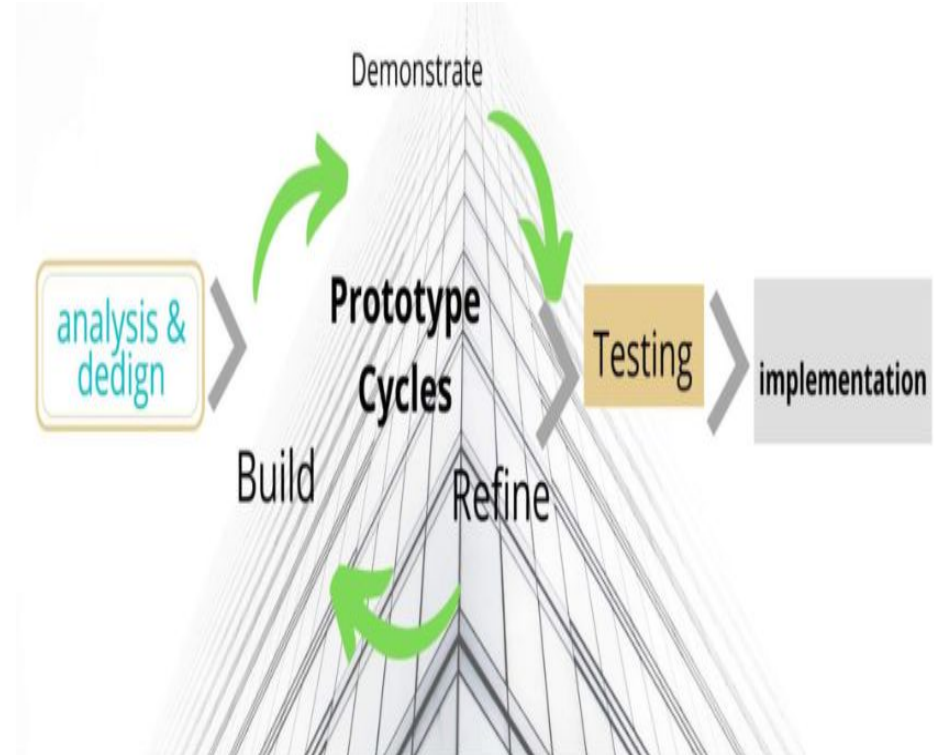
- It is known from the name itself that it is done inside it.
- Within this phase the coding of the application or software project is done.
- Based on the business model.
- Also, coding is done to create software or applications through “Automated Code Generate Tool”.



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5:- Testing and Turnover:-

- All interfaces and components are tested within the testing and turnover phase.
- Some programming components are already tested.
- Also new components and interfaces are tested because each prototype is tested separately in it.
- By which the testing time in the RAD (Rapid Application Development) model is reduced.



When to use RAD Model



When to use RAD Model

- This model should be used when the project needs to be built in less time.
- When you know and analyze all the requirements well.
- It should be used when the technical risk is very less.
- This model should be used when the project needs to be developed in 2-3 months.

RAD Model: Advantage & Disadvantage



RAD Model: Advantage

- Using this model, the project is developed in a flexible way and easily. Changes also happen easily.
- In this we can generate automated code very easily.
- Through this model, the time in development in the project is greatly reduced.
- Changes that are within the RAD model are accepted.
- The most important thing about this model is that the components are easily reused in it.
- The RAD (Rapid Application Development) model provides the highest functionality for the customer in each one.
- This model reduces the time of project development to a great extent.
- Errors are seen a lot while developing in this model because it works on the model prototype.
- These models are very cost effective.

RAD Model: Disadvantage

- **Highly required skilled designers are needed to utilize the work and management in this model.**
- **These models are not suitable for all projects. Meaning do not use on small projects.**
- **If you are using this model for development, then you need to talk to the customer after every phase and it is also necessary to take his feedback.**