

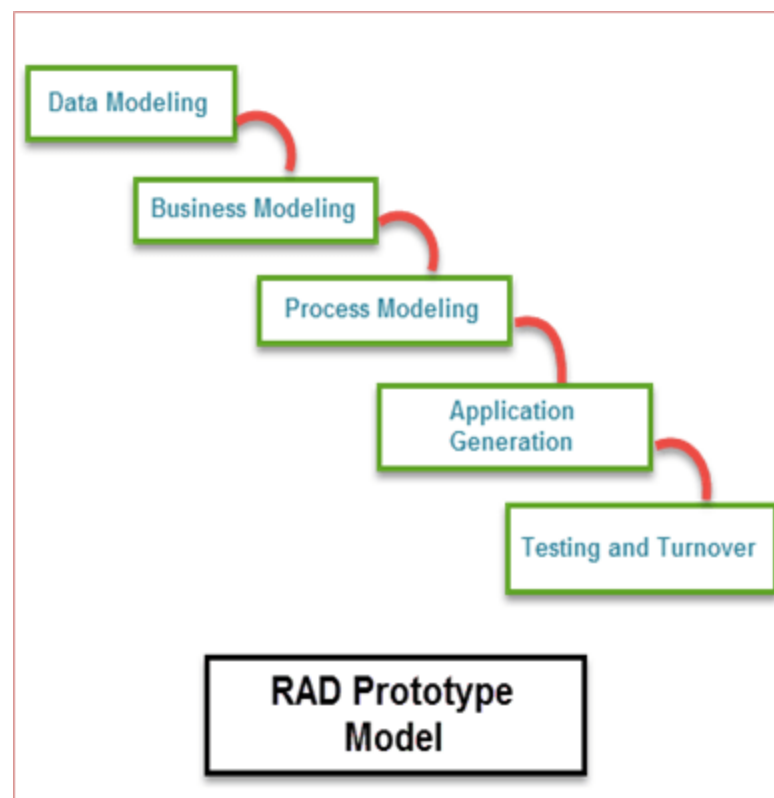
# What is RAD Model? Advantages & Disadvantages

## What is RAD (Rapid Application Development) Model?

RAD or Rapid Application Development process is an adoption of the waterfall model; it targets at developing software in a short span of time. RAD follow the iterative

SDLC RAD model has following phases

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



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It focuses on input-output source and destination of the information. It emphasizes on delivering projects in small pieces; the larger projects are divided into a series of smaller projects. The main features of RAD model are that it focuses on the reuse of templates, tools, processes, and code.

## Software Engineering Tutorial

[1\) SDLC Tutorial \(/software-development-life-cycle-tutorial.html\)](/software-development-life-cycle-tutorial.html).

[2\) What is Waterfall Model in SDLC? \(/what-is-sdlc-or-waterfall-model.html\)](/what-is-sdlc-or-waterfall-model.html).

[3\) Incremental Model in SDLC \(/what-is-incremental-model-in-sdlc-advantages-disadvantages.html\)](/what-is-incremental-model-in-sdlc-advantages-disadvantages.html).

[4\) What is Spiral Model? \(/what-is-spiral-model-when-to-use-advantages-disadvantages.html\)](/what-is-spiral-model-when-to-use-advantages-disadvantages.html).

[5\) What is RAD Model? \(/what-is-rad-rapid-software-development-model-advantages-disadvantages.html\)](/what-is-rad-rapid-software-development-model-advantages-disadvantages.html).

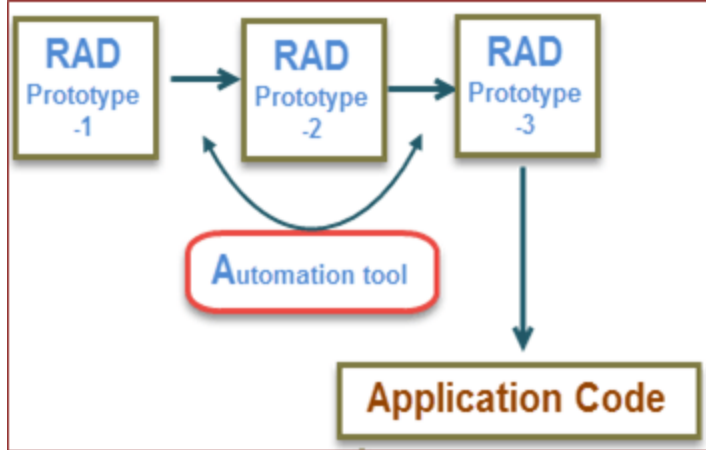
[6\) Waterfall vs. Incremental vs. Spiral vs. Rad Model \(/compare-waterfall-vs-incremental-vs-spiral-vs-rad.html\)](/compare-waterfall-vs-incremental-vs-spiral-vs-rad.html).

[7\) Capability Maturity Model \(CMM\) \(/capability-maturity-model-cmm-cmm-levels-a-fool-s-guide.html\)](/capability-maturity-model-cmm-cmm-levels-a-fool-s-guide.html).

[8\) N Tier\(Multi-Tier\) Architecture \(/n-tier-architecture-system-concepts-tips.html\)](/n-tier-architecture-system-concepts-tips.html).

[9\) What is Full Stack Developer? \(/full-stack-developer.html\)](/full-stack-developer.html).

[10\) Functional Programming Tutorial \(/functional-programming-tutorial\)](/functional-programming-tutorial).



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RAD Model in Software Engineering

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[11\) MVC Tutorial \(/mvc-tutorial.html\)](#)).

## Different phases of RAD model includes

Phases of RAD model	Activities performed in RAD Model
Business Modeling	<ul style="list-style-type: none"><li>On basis of the flow of information and distribution between various business channels, the product is designed</li></ul>
Data Modeling	<ul style="list-style-type: none"><li>The information collected from business modeling is refined into a set of data objects that are significant for the business</li></ul>
Process Modeling	<ul style="list-style-type: none"><li>The data object that is declared in the data modeling phase is transformed to achieve the information flow necessary to implement a business function</li></ul>
Application Generation	<ul style="list-style-type: none"><li>Automated tools are used for the construction of the software, to convert process and data models into prototypes</li></ul>
Testing and Turnover	<ul style="list-style-type: none"><li>As prototypes are individually tested during every iteration, the overall testing time is reduced in RAD.</li></ul>

## When to use RAD Methodology?

- When a system needs to be produced in a short span of time (2-3 months)
- When the requirements are known



- When the user will be involved all through the life cycle
- When technical risk is less
- When there is a necessity to create a system that can be modularized in 2-3 months of time
- When a budget is high enough to afford designers for modeling along with the cost of automated tools for code generation

## Advantages and Disadvantages of SDLC RAD Model

Advantages	Disadvantages
<ul style="list-style-type: none"><li>• Flexible and adaptable to changes</li></ul>	<ul style="list-style-type: none"><li>• It can't be used for smaller projects</li></ul>
<ul style="list-style-type: none"><li>• It is useful when you have to reduce the overall project risk</li></ul>	<ul style="list-style-type: none"><li>• Not all application is compatible with RAD</li></ul>
<ul style="list-style-type: none"><li>• It is adaptable and flexible to changes</li></ul>	<ul style="list-style-type: none"><li>• When technical risk is high, it is not suitable</li></ul>
<ul style="list-style-type: none"><li>• It is easier to transfer deliverables as scripts, high-level abstractions and intermediate codes are used</li></ul>	<ul style="list-style-type: none"><li>• If developers are not committed to delivering software on time, RAD projects can fail</li></ul>
<ul style="list-style-type: none"><li>• Due to code generators and code reuse, there is a reduction of manual coding</li></ul>	<ul style="list-style-type: none"><li>• Reduced features due to time boxing, where features are pushed to a later version to finish a release in short period</li></ul>
<ul style="list-style-type: none"><li>• Due to prototyping in nature, there is a possibility of lesser defects</li></ul>	<ul style="list-style-type: none"><li>• Reduced scalability occurs because a RAD developed application begins as a prototype and evolves into a finished application</li></ul>
<ul style="list-style-type: none"><li>• Each phase in RAD delivers highest priority functionality to client</li></ul>	<ul style="list-style-type: none"><li>• Progress and problems accustomed are hard to track as such there is no documentation to demonstrate what has been done</li></ul>



- With less people, productivity can be increased in short time
- Requires highly skilled designers or developers

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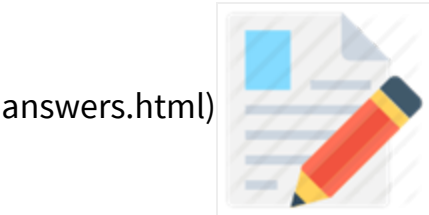


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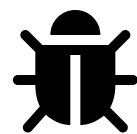
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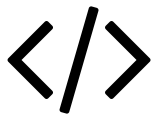
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