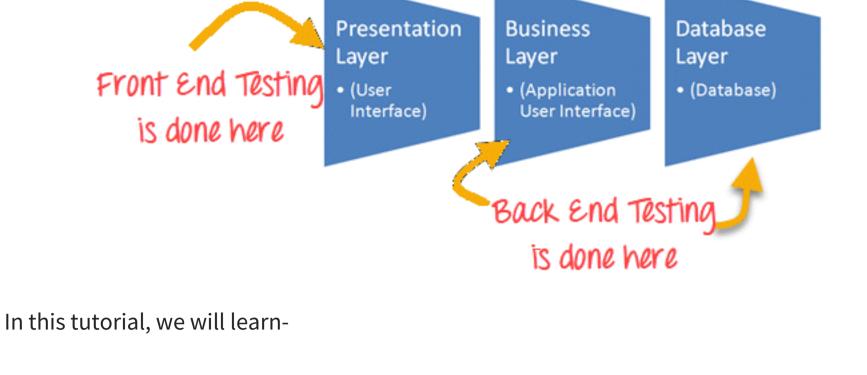
Frontend Testing Vs. Backend Testing: What's the Difference?

What is Frontend Testing?

Frontend Testing is a type of testing that checks the Presentation layer of a 3 Tier Architecture.

In layman's term, you are checking the GUI anything that is visible on screen, client -side. For a web application, front-end testing would involve checking functionalities like forms, graphs, menus, reports, etc. as well as associated Javascript. Frontend testing is a term that covers a variety of testing strategies.

A tester needs a good understanding of business requirements to perform this type of testing.



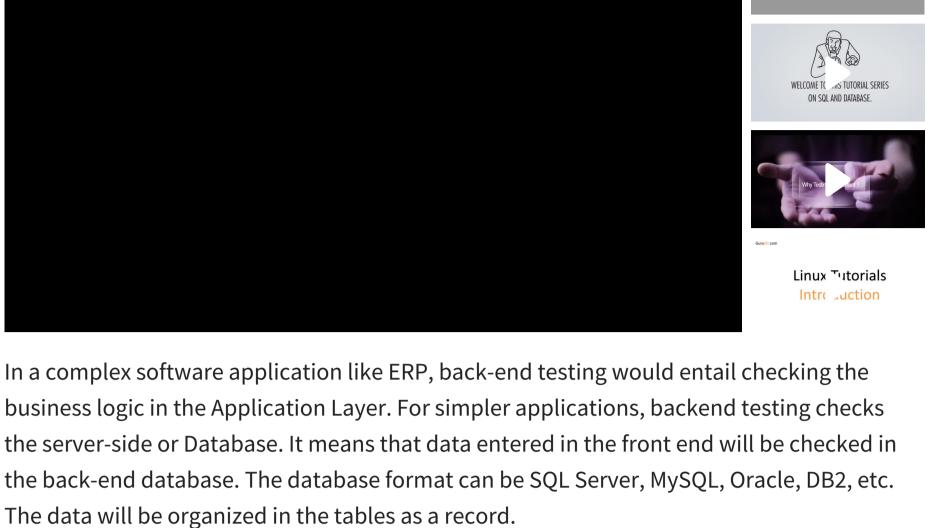
What is Back-end testing?

What is Front-end testing?

- Frontend Testing Vs Backend Testing
- Important Front end testing tools:
- Important Back end testing tools:
- What is Back-end Testing?
- Backend testing is a type of testing that checks the Application and Database layer of a 3 Tier Architecture.

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In back-end testing, there is no need to use the GUI. You can directly pass the data using a browser with the parameters required for the function to get the response in some default format. For Example, XML or JSON. You also connect to the database directly and verify the

Databases are checked for ACID properties, CRUD operations, their Schema, Business rule

conformance. Databases is also checked for Security and Performance.

KEY DIFFERENCE • Frontend Testing checks the presentation layer of a 3 Tier Architecture whereas

backend testing checks the application and database layer of a 3 Tier Architecture.

Frontend testing is always performed on the GUI whereas backend Testing involves databases and business logic testing.

data using SQL queries.

- Frontend testing does not need any information to be stored in a database, but backend testing needs information stored in the database.
- Frontend testing is essential to check the overall functionality of the application while backend testing is important to check for deadlock, data corruption, data loss,
- Frontend tester must be knowledgeable about the business requirements and automation frameworks tools while Backend tester must have a strong background
- Frontend testing examples are Unit Tests, Acceptance Testing, Accessibility Testing, Regression Testing whereas backend testing examples are SQL Testing, API Testing, etc.
- Frontend Testing Vs Backend Testing **Frontend testing Backend testing**

Back End Testing involves databases and

business logic testing.

The tester must be knowledgeable The tester to be able to perform back-end about the business requirements as testing must have a strong background in the database and Structured Query Language well as the usage of the automation

frameworks tools.	(SQL) concepts.
GUI is used to perform the Testing	GUI may or may not be used to perform Testing
It does not need any information to be stored in a database.	It does need information stored in the database.
It is essential to check the overall functionality of the application.	Backend testing is important to check for deadlock, data corruption, data loss, etc
Types of Testing done are – Unit Tests, Acceptance Testing, Accessibility Testing, Regression Testing, etc.	Three widely used types of database testing are SQL Testing, API Testing, etc.
Important Front-end testing tools:	
There are many tools available for front-end testing. Here, given are three popular front-end testing tools.	
1. Grunt:	

runner, offering plenty of bundled plugins for common tasks. 2. LiveReload:

LiveReload is a simple Web protocol. It triggers events to the clients whenever files are modified. Clients can handle this event in their way, even if the most common use case is when a file is modified.

Grunt is one of the preferred tools when it comes to task automation. It is a JavaScript task

3. Karma: Karma is a JavaScript test runner tool. It allows you to execute tests from workstation to

the production CI.

Important Backend testing tools: Database testing also refers to Back-end testing is very important. Here, are some

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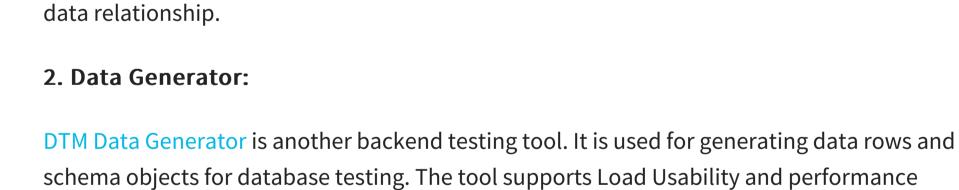
Amazon Fire

important back-end testing tools which help to find issues like deadlocking, data

1. Data Factory:

the best

corruption, and poor performance.



Data factory is database testing tool. It works as data generator and data manager for

database testing. It has very easy to use interface and capable of managing complicated

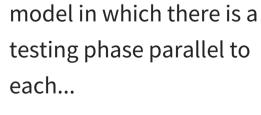
and relational databases.

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practice that promotes

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Risk

Based

Testing:

Approach, Matrix, **Process & Examples** Risk Based Testing Risk Based Testing (RBT) is a software testing type which







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with Examples

Software testing is the

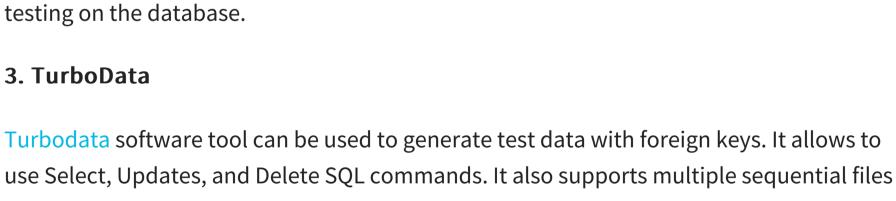
process of verifying and

validating a software

application to check...

SOFTWARE TESTING

99999



highly disciplined SDLC

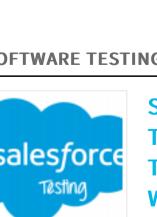
V-Model in

Software

Testing

V Model V

Model is a

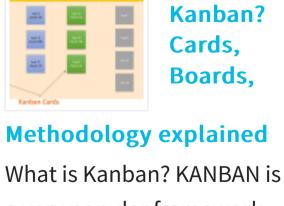


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Frontend testing is always performed

on the GUI.