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| REV | Change history | Zone | Changed By  Date | Approved  Date |
| 01 | Initial Draft | ALL | Varnitha  04/02/2020 | 04/02/2020 |
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1. **Introduction**

This document contains the Fault Tree Analysis (FTA) for…

1. **Purpose**

Fault tree analysis (FTA) is a deductive procedure used to determine the various combinations of hardware and software failures and human errors that could cause undesired events (referred to as top events) at the system level.

1. **References**

* Fault tree analysis textbook from ntnu.com.
* Top 5 important reasons of application failure from datacenterknowledge.com.
* Fault tree analysis Wikipedia.

1. **Fault Tree(s)**

Real Estate Application Admin View

Corrupt Database

Enter Valid Credentials

Check your Database connection credentials

Check the Database and make sure it is not corrupted

Fill all the Values In the form

Restart the Application

Exit the previous application

Irresponsive Database connection

Mismatch credentials

Missing values

Service not available

Previous process is still running

No Database connection

Unable to enter credentials in some fields

Unable to create new property

App fails to start

Clear catch and launch the app again

Not enough RAM

Check the hard drive it is fragmented or starting to fail

Check the actual problem

Turn the software off and on it

Enter all the mandatory fields

Enter valid credentials

Real Estate Application Admin View

Device Crashes or stops working

Application navigates slowly

Admin missed the mandatory credentials

Interconnected entities compromised

Hardware Failure

Memory leaks

Admin failed to enter valid credentials

Admin Unable to Login

**b.**

Real Estate Application User view



Enter the valid credentials

Fill all the mandatory fields

Admin must post the property information

Request admin to check the Database connectivity

Database Error

No property posted by the admin

Did not Enter all the Mandatory fields

User Failed to Login

Did not Enter the Valid Credentials

User Unable to see the properties