**Traceability matrix**

It is also called as Requirement Traceability matrix(RTM) or Cross reference matrix (CRM)

It is a document through which we are ensuring that each and every requirement has minimum test cases.

**Advantages of RTM:**

1) Ensures complete requirements are documented.

2) It helps in analyzing the root cause of any defect.

3) Applications can be developed according to the requirements.

**Types of RTM:**

1) Forward Traceability Matrix

2) Backward Traceability Matrix

3) Bi-directional Traceability Matrix

1) **Forward Traceability Matrix** – It is used to map requirements to the test cases. This is done before Test case execution. Here we are ensuring that the product developments are going in the right direction.

2) **Backward Traceability Matrix** – It is used to map Test cases to the requirement. This is done after Test case execution. Here we are ensuring that we are not going against/developing products against customer requirements.

3) **Bi-directional Traceability Matrix** – It is a combination of both Forward Traceability Matrix and Backward Traceability Matrix.