

## Black Box Test Plans:

**Test – 1:** Unique postal codes are maintained in the system (i.e., Postal code id).

**Test – 2:** Distribution hubs are unique (i.e., Hub id).

**Test – 3:** Each distribution has the functionality to record its damage and repairing time.

**Test – 4:** Testing of Hub repair log taking employee details, repairing time and in service into consideration.

**Test – 5:** Testing of people out of service, 1) when there is no overlap of postal codes and 2) overlap occurs in different hubs,

**Test – 6:** Most damaged postal codes for given limit and in descending order of repairing time.

**Test – 7:** Test of most significant hubs to be fixed, result in descending order of hubs,

**Test – 8:** Rate of service restoration testing for different increments.

**Test – 9:** Repairing plan testing for starting and ending hub, validating starting hub, maximum distance and time.

**Test – 10:** Test served postal codes by area and population for given limit.

## Feature Development Timeline:

1) Problem breakdown and analysis	November 21 – November 23
2) Creating database tables and gathering the data	November 24 – November 26
3) Developing the methods, implementation of classes and functionality	November 27 – December 11
4) Testing of overall system	December 12 – December 14
5) Final enhancement	December 15