1. User can travel up to 50 years to the past at once.
2. User can travel up to 10 years to the future at once.
3. 3- Each time-machine needs recharging after 3 trips maximum.
4. 4- A time machine can only be recharged in the current time (not in the past, and not in the future).
5. 5- If a user doesn’t come back in a week, he can’t come back at all.

Section 1 :

**What scenarios will you focus on?**

Functional Testing Scope :

* User Can Go 50 Years to the past.
* User Can Go 10 years to the Future.
* Verify Machine Does not work when user chooses to go to more than 50 years in the past at once. (Test data : 60,70,80 ,+years).
* Verify for any number less than 50 user can go to the past with the selected years .

(Test Data : 5,10,23,24,40,50 years).

* Verify User Cannot (Machine gets error) Go to More than 10 years in the future.

(Test Data: 11,12,20,30,40 +years).

* User can go to the future to any value less than 10 years ( Test data: 1,2,3,4,5,6,10)
* Verify Decimals/fractional timing works on the machine in future and in past

(Test data : 1 year and 2 months , 30 years and 7 months , 2 years and two weeks ,etc).

* Verify Machine can take up to 3 trips successfully.
* Verify user can go from one trip to another without getting back to the present at each trip.
* Verify User can Comeback from Future to present in days less than 7
* Verify User can Comeback from past to present in days less than 7
* More than one User can go to the same time zone at once.

Performance Testing Scope :

* Verify how long does it take the user to move from one time to another.
* Verify how long does the machine takes to recharge.
* Verify the amount of users that can move from present to past/future at once .

Usability Testing Scope:

* Verify its easy to use.
* User can get back to present moment with a simple way.
* User can get back to present at anytime.

**What scenarios can’t you test and why?**

* I can’t test “ User cannot come back when more than one week has passed “
* Charge less machine does not work in case of past and future
* Testing more than 3 trips

**Strategy**

As mentioned above the types of testing with the mentioned scenarios will be executed

Additionally to

Hardware Testing

Compatibility Testing

**Problems with the machine testing**

Some scenarios will be so risky to test if it contains a bug it will have a very risky impact on the user using the machine

Which includes these scenarios

Moving to the past and ability to go back to present ( if this had a bug) > user will be stuck in the past)

Moving to the future ( if this had a bug) > user will be stuck in the future