For Test

Party	Account number	address
Owner	2	0xf0b136505eEB6153DAbEC79F34649ce77805e7cF
Donor 1	3	0xF4D846Ed3c195DD8cE4f1ac39653E3949a05d64f
Donor 2	4	0x698019c23d09c1a89FEE8a6C5C5E0b3fdeDd8613
Beneficiary	5	0xf530E507a8f89a69259864C3820f885CD4b22b79
Validator	6	0xEee353CE8e139D303799F5E07272F73a7970651a
Validator	7	0x03fcc7B438483414aEF817d0D761dd80E2036AB7
Validator	8	0xAE355B827eaF295b5E5A629E36CeFacf8d8fadE8
Validator	9	0x1890DD250108CFb2AFdA9b2583A0281a5172ee68

Test 1:

1- Call register_valid_contract(master_contract_address) in token_contract.

2- Call assign_token_to_donor (address reciever, uint amount) in token_contract

3- Call add_validators (address _validator_addr) in master contract (note that you first need to gen. some addr. for validators)

4- Call set_project() in master_contract --- set cancelation period to zero

5- Call assign_token_to_contract() in token_contract

6- Call validate_project() – with accounts 6-10 --- check if the recipient received the tokens and donors token is decremented.

Test 2:

1- Call register_valid_contract(master_contract_address) in token_contract.

2- Call assign_token_to_donor (address reciever, uint amount) in token_contract

3- Call add_validators (address _validator_addr) in master contract (note that you first need to gen. some addr. for validators)

4- Call set_project() in master_contract --- set cancelation period to zero

5- Call set_project() in master_contract --- set cancelation period to zero

6- Call set_project() in master_contract --- set cancelation period to zero

7- Call set_project() in master_contract --- set cancelation period to zero

8- Call assign_token_to_contract() in token_contract

9- Call validate_project() – with accounts 6-10 --- check if the recipient received the tokens and donors token is decremented.

Test 3:

1- Call register_valid_contract(master_contract_address) in token_contract.

2- Call assign_token_to_donor (address reciever, uint amount) in token_contract

3- Call set_project() in master_contract --- allocate some tokens to it. set cancelation period to 1000000

4- Call set_project() in master_contract ---Don’t allocate any token to it. Set cancelation period to 1000000

5- Call assign_token_to_contract() in token_contract

6- Call cancel_project(). – check if his token has been unlocked and the project got deleted.

Test 4:

1- Call register_valid_contract(master_contract_address) in token_contract.
2- Call assign_token_to_donor (address reciever, uint amount) in token_contract
3- Call set_project() in master_contract as follows:

3.1 Set_project ("Project 1",7,"0xf530E507a8f89a69259864C3820f885CD4b22b79",1,1)
3.1 Assign token to project 1.
3.2 Set "Pro_2",8,"0xf530E507a8f89a69259864C3820f885CD4b22b79",1000000,1
3.3 Delete Project 1: Call remove_an_expired_project()
3.4 Set "Pro_3",8,"0xf530E507a8f89a69259864C3820f885CD4b22b79",1000000,1
3.5 Set "Project 4",7,"0xf530E507a8f89a69259864C3820f885CD4b22b79",1,1
3.6 Delete Project 4: Call remove_an_expired_project()
3.7 Set "Project 5",7,"0xf530E507a8f89a69259864C3820f885CD4b22b79",1,1
3.8 Assign tokens to project 5.
3.9 Set "Project 6",7,"0xf530E507a8f89a69259864C3820f885CD4b22b79",1000000,1
3.10 Delete project 5: Call remove_an_expired_project()
3.11 Set "Project 7",7,"0xf530E507a8f89a69259864C3820f885CD4b22b79",1,1
3.12 Set "Project 8",7,"0xf530E507a8f89a69259864C3820f885CD4b22b79",100000,1
3.13 Set "Project 9",7,"0xf530E507a8f89a69259864C3820f885CD4b22b79",1,1
3.14 Set "Project 10",7,"0xf530E507a8f89a69259864C3820f885CD4b22b79",1,1
3.15 Set "Project 11",7,"0xf530E507a8f89a69259864C3820f885CD4b22b79",100000,1

Test 5: Test multiple donors creating/deleting different projects. A simple scenario

1- Call register_valid_contract(master_contract_address) in token_contract.
2- Call assign_token_to_donor (address donor_1, uint amount) in token_contract
3- Call assign_token_to_donor (address donor_2, uint amount) in token_contract
4- Call set_project() in master_contract as follows:
4.1 Donor 1: Set_project ("Project 1",7,"0xf530E507a8f89a69259864C3820f885CD4b22b79",1,1)
4.2 Assign token to project 1.
4.3 Donor 2: Set_project ("Project 2",9,"0xf530E507a8f89a69259864C3820f885CD4b22b79",1,1)
4.4 Assign token to project 2.
4.5 Donor 1: Set_project ("Projec 3",7,"0xf530E507a8f89a69259864C3820f885CD4b22b79",1000000,1)
4.6 Assign token to project 3.
4.7 Donor 2: Set_project ("Project 4",7,"0xf530E507a8f89a69259864C3820f885CD4b22b79",1,1)
4.8 Donor 1 calls: remove_an_expired_project (bytes6 _pro_id_1)
4.9 Donor 1: Set_project ("Projec 5",7,"0xf530E507a8f89a69259864C3820f885CD4b22b79",1,1)
4.10 Call emove_all_expired_projects

Test 6: Test multiple donors creating/deleting different projects:

1- Call register_valid_contract(master_contract_address) in token_contract.
2- Call add_validators (address _validator_addr) in master contract.
3- Call assign_token_to_donor (address donor_1, uint amount) in token_contract

4- Call assign_token_to_donor (address donor_2, uint amount) in token_contract

5- Call set_project() in master_contract as follows:

5.1 Donor 1: Set_project ("Project 1.1",7,"0xf530E507a8f89a69259864C3820f885CD4b22b79",1,1)
5.2 Assign token to project 1.
5.3 Donor 1: Set_project ("Project 2.2.",9,"0xf530E507a8f89a69259864C3820f885CD4b22b79",1,1)
5.4 Assign token to project 2.
5.5 Donor 1: Set_project ("Projec 1.3",7,"0xf530E507a8f89a69259864C3820f885CD4b22b79",1000000,1)
5.6 Assign token to project 1.3.
5.7 Donor 1: Set_project ("Projec 1.4",7,"0xf530E507a8f89a69259864C3820f885CD4b22b79",1,1)
5.8 Assign token to project 1.4.
5.9 Donor 1: call: remove_an_expired_project (bytes6 _pro_id_2.2)
5.10 Donor 2: Set_project ("Projec 2.5",7,"0xf530E507a8f89a69259864C3820f885CD4b22b79",1,1)
5.11 Donor 2: Set_project ("Project 2.6",9,"0xf530E507a8f89a69259864C3820f885CD4b22b79",1000000,1
5.12 Assign token to project 2.6.
5.13 Donor 2: Set_project ("Project 2.7",7,"0xf530E507a8f89a69259864C3820f885CD4b22b79",1,1)
5.14 Assign token to project 2.7.
5.15 Donor 1 calls: remove_an_expired_project (bytes6 _pro_id_1.1)
5.16 Donor 1: Set_project ("Projec 1.8",7,"0xf530E507a8f89a69259864C3820f885CD4b22b79",1,1)
5.17 Assign token to project 1.8.
5.18 Donor 1 calls: remove_an_expired_project (bytes6 _pro_id_2.8)
5.19 Donor 2: Set_project ("Projec 2.9",7,"0xf530E507a8f89a69259864C3820f885CD4b22b79",1,1)
5.20 Call emove_all_expired_projects
5.21 Call validate_project(project_id_6) – with accounts 6-10
5.22 Call validate_project(project_id_3) – with accounts 6-10