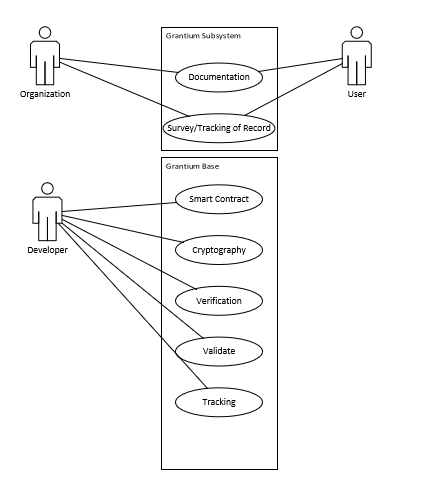
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| --- |
| FYP-1 |
| Blockchain Framework |
| Monthly deliverable M-I |

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| --- |
| Saad Anwar\_1512231, Waleed Faisal\_1512242  10-5-2018  Advisor: Sir. Asim Riaz |

USE CASE DIAGRAM:



USE CASES:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use case Id: Smart Contracts** | | | | |
| **Use case Id:** | | 1 | | |
| **Actors:** Developer | | | | |
| **Feature:** Smart Contract | | | | |
| **Pre-condition:** | | Get all feature at one place | | |
| **Scenarios** | | | | |
| **Step#** | **Action** | | | **Software Reaction** |
| **1.** | Developer change the grantium base. | | |  |
| **2.** | *Developer build custom base* | | | *Get all services as developer wants* |
|  |  | | |  |
| **Alternate Scenarios:** | | | | |
| **1a:** Already created    **2a:** Server not available. | | | | |
| **Post Conditions** | | | | |
| **Step#** | **Description** | | | |
| **1.** | *Get all services as developer wants* | | | |
| **2.** | *Base Smart Contract must be interact other services* | | | |
|  |  | | | |
| **Use Case Cross referenced** | | | - | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use case Id: Cryptography** | | | | |
| **Use case Id:** | | 2 | | |
| **Actors:** Developer | | | | |
| **Feature:** Cryptography returns a unique sh256 hash to base smart contract | | | | |
| **Pre-condition:** | | The user must ask for it | | |
| **Scenarios** | | | | |
| **Step#** | **Action** | | | **Software Reaction** |
| **1.** | Ask for a unique sh256 hash | | |  |
| **2.** |  | | | Returns a unique hash to smart contract |
| **3.** |  | | |  |
| **4.** |  | | |  |
|  |  | | |  |
| **Alternate Scenarios:** Write additional, optional, branching or iterative steps. Refer to specific action number to ensure understandability. | | | | |
| **1a:** Smart Contract doesn’t ask for it    **2a:** No hash generated | | | | |
| **Post Conditions** | | | | |
| **Step#** | **Description** | | | |
| **1.** | Returns a sha256 Hash | | | |
|  |
|  |  | | | |
| **Use Case Cross referenced** | | |  | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use case Id: Verification** | | | | |
| **Use case Id:** | | 3 | | |
| **Actors:** Developer | | | | |
| **Feature:** Verification of the certificate | | | | |
| **Pre-condition:** | | Must recognize the certificate given by smart contract | | |
| **Scenarios** | | | | |
| **Step#** | **Action** | | | **Software Reaction** |
| **1.** | Sends a sha 256 hash to base smart contract | | |  |
| **2.** |  | | | Returns after verifying the certificate |
| **3.** |  | | |  |
|  |  | | |  |
| **Alternate Scenarios:** | | | | |
| **1a:** Does not verify the certificate | | | | |
| **Post Conditions** | | | | |
| **Step#** | **Description** | | | |
| **1.** | Certificate Verified | | | |
|  |  | | | |
| **Use Case Cross referenced** | | | - | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use case Id: *Tracking*** | | | | |
| **Use case Id:** | | 4 | | |
| **Actors:** *Developer* | | | | |
| **Feature:** *Track transaction made through smart contracts* | | | | |
| **Pre-condition:** | | *Tracks the transaction* | | |
| **Scenarios** | | | | |
| **Step#** | **Action** | | | **Software Reaction** |
| **1.** | *Developer asks for the transaction detail* | | |  |
| **2.** |  | | | *Returns the detail to smart contract* |
|  |  | | |  |
| **Alternate Scenarios:**. | | | | |
| **1a:** *No details* | | | | |
| **Post Conditions** | | | | |
| **Step#** | **Description** | | | |
| **1.** | *Returns the transaction detail* | | | |
|  |  | | | |
| **Use Case Cross referenced** | | | - | |

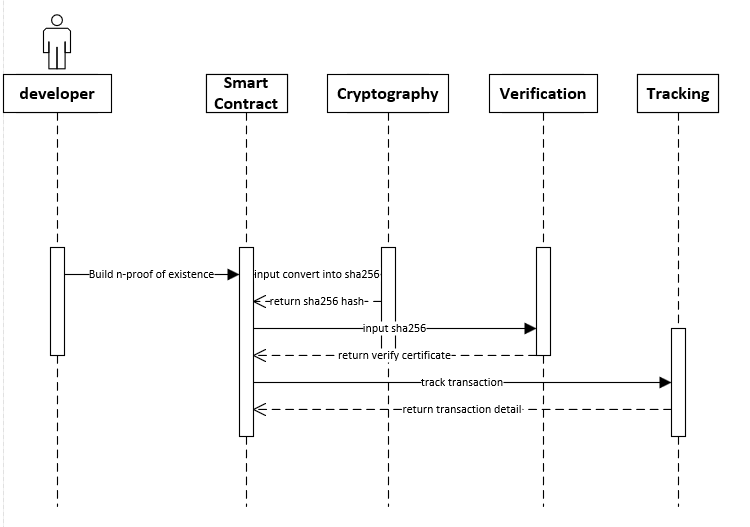
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| --- | --- | --- | --- | --- |
| ***Use case Id: Docs*** | | | | |
| **Use case Id:** | | 5 | | |
| **Actors:** *User* | | | | |
| **Feature:** *Timestamp* | | | | |
| **Pre-condition:** | | *Identifying the user when a certain event occurred* | | |
| **Scenarios** | | | | |
| **Step#** | **Action** | | | **Software Reaction** |
| **1.** | *The user enters desire document* | | |  |
| **2.** |  | | | *Return digital sign certificate to user for grantium of your assets* |
|  |  | | |  |
| **Alternate Scenarios:** | | | | |
| **1a:** *No services for the use*  *2: Failed to show digital signature* | | | | |
| **Post Conditions** | | | | |
| **Step#** | **Description** | | | |
| **1.** | *User gets the services from the smart contract* | | | |
|  |  | | | |
| **Use Case Cross referenced** | | | *-* | |

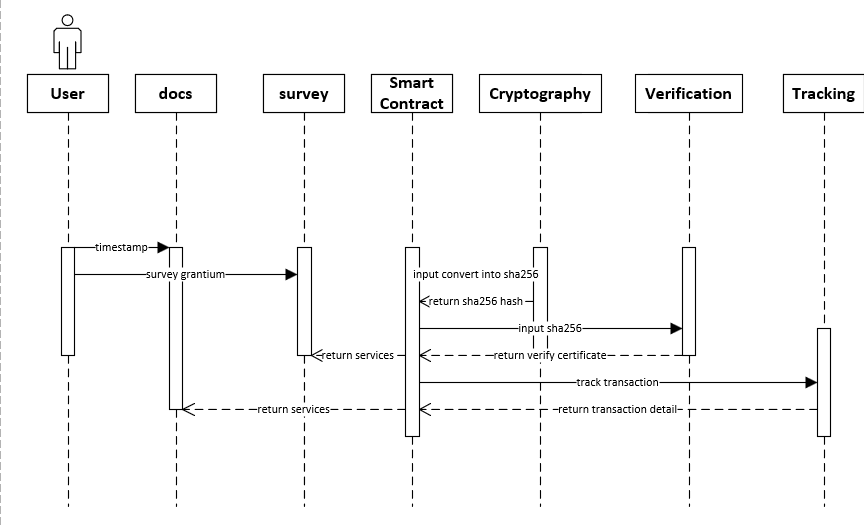
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| --- | --- | --- | --- | --- |
| ***Use case Id: Survey*** | | | | |
| **Use case Id:** | | 6 | | |
| **Actors:** *User* | | | | |
| **Feature:** *Survey* | | | | |
| **Pre-condition:** | | *Surveys Grantium* | | |
| **Scenarios** | | | | |
| **Step#** | **Action** | | | **Software Reaction** |
| **1.** | *The user enters the surveys grantium* | | |  |
| **2.** |  | | | *Return proof that surveys never temper or temper when first time conduct* |
|  |  | | |  |
| **Alternate Scenarios:** | | | | |
| **1a:** *No services for the user* | | | | |
| **Post Conditions** | | | | |
| **Step#** | **Description** | | | |
| **1.** | *User gets the services from the smart contract* | | | |
|  |  | | | |
| **Use Case Cross referenced** | | | *-* | |

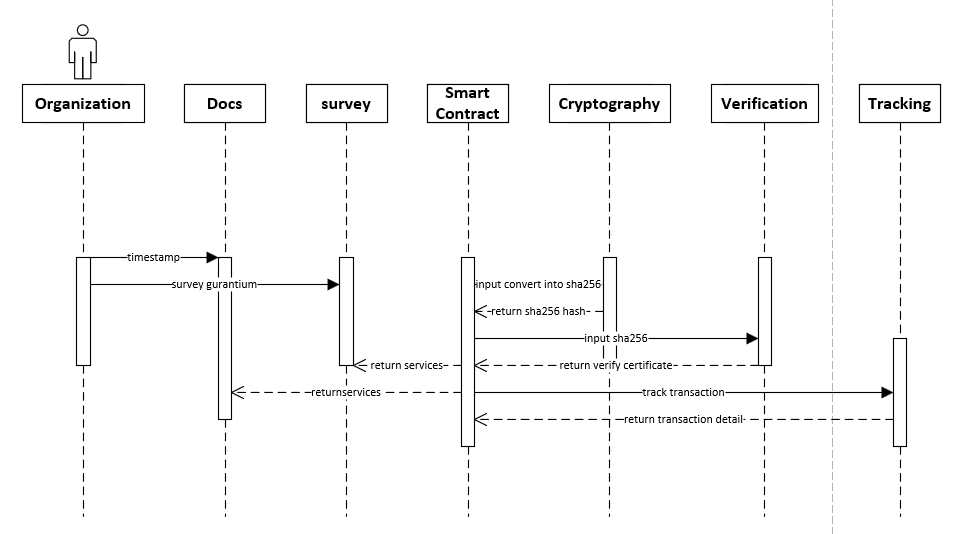
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| --- | --- | --- | --- | --- |
| ***Use case Id: Docs*** | | | | |
| **Use case Id:** | | 7 | | |
| **Actors:** *Organization* | | | | |
| **Feature:** *Time stamp* | | | | |
| **Pre-condition:** | | *Identifying the organization when a certain event occurred* | | |
| **Scenarios** | | | | |
| **Step#** | **Action** | | | **Software Reaction** |
| **1.** | *The organization enters desire document* | | |  |
| **2.** |  | | | *Return digital sign certificate to organization for grantium of your assets* |
|  |  | | |  |
| **Alternate Scenarios:** | | | | |
| **1a:** *No services for the organization*  *2: Failed to show digital signature* | | | | |
| **Post Conditions** | | | | |
| **Step#** | **Description** | | | |
| **1.** | *organization gets the services from the smart contract* | | | |
|  |  | | | |
| **Use Case Cross referenced** | | | *-* | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***Use case Id: Survey*** | | | | |
| **Use case Id:** | | 8 | | |
| **Actors:** *Organization* | | | | |
| **Feature:** *Survey* | | | | |
| **Pre-condition:** | | *Surveys Grantium* | | |
| **Scenarios** | | | | |
| **Step#** | **Action** | | | **Software Reaction** |
| **1.** | *The organization enters the surveys grantium* | | |  |
| **2.** |  | | | *Return proof that surveys never temper or temper when first time conduct* |
|  |  | | |  |
| **Alternate Scenarios:** | | | | |
| **1a:** *No services for the organization* | | | | |
| **Post Conditions** | | | | |
| **Step#** | **Description** | | | |
| **1.** | *organization gets the services from the smart contract* | | | |
|  |  | | | |
| **Use Case Cross referenced** | | | *-* | |

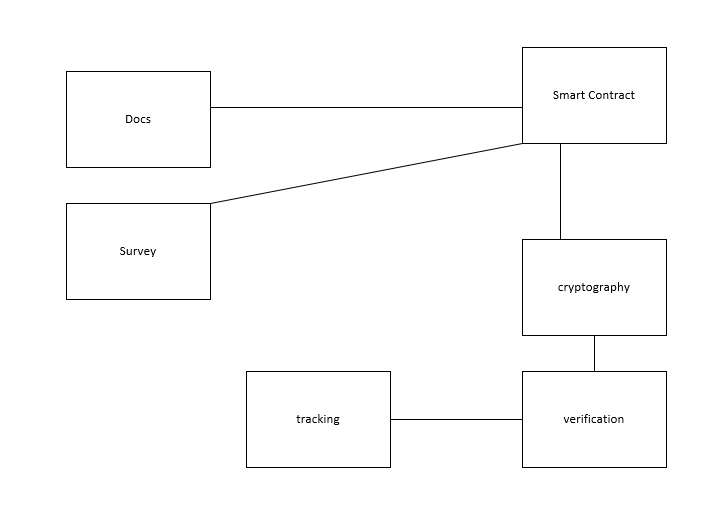
SEQUENCE DIAGRAM:







DOMAIN MODEL:



ITERATION PLAN:

