

## Weekly Report 4

Subject: Security and Privacy Modeling and Implementation with ALFA and Fabric 12th February – 18th February weekly report

Name	Completed Items	To do Items/Running Task
Siddhartha Illa	<ol style="list-style-type: none"><li>1. Installed Alfa plugin and developed a sample policy which accepts all requests or denys all requests.</li><li>2. Executed basic Minifabric</li><li>3. Executed asset-transfer-ABAC</li></ol>	<ol style="list-style-type: none"><li>1. Working on a sample go project where I am trying to interact with the generated xml by Alfa.</li><li>2. BPMN diagram to identify attributes and extract security policies from the workflow.</li><li>3. Will try to add some of the identified attributes to CA using MiniFabric.</li></ol>
Bhaavagni Maddi	<ol style="list-style-type: none"><li>1. We are using ABAC Asset model to develop the Smart Contracts.</li><li>2. Register identities with attributes.</li><li>3. Operation on asset: Create, Transfer, Update, Delete</li><li>4. Executed asset- transfer- abac</li><li>5. Developed a sample application called BookLibrary in the test network which interacts with world state.</li></ol>	
Farhana Begum Shaik	<ol style="list-style-type: none"><li>1. Prepared abstract</li><li>2. Executed asset- transfer- abac</li><li>3. Developed a sample application called BookLibrary in the test network which interacts with world state.</li></ol>	
Sripada Vallabh Kaparathi	<ol style="list-style-type: none"><li>1. Analyse BPMN diagram and its workflow in detail</li><li>2. Identified and listed some of the attributes</li><li>3. Prepared requirements analysis document</li><li>4. Hosted project website</li></ol>	<ol style="list-style-type: none"><li>1. Need to find out more attributes by taking inputs from Dr.Sha</li><li>2. Storing and retrieving attributes</li><li>3. Writing security policies</li><li>4. Start working on CA with team.</li></ol>
Ganesh Nyaupane	<ol style="list-style-type: none"><li>1. Performed fabric sample Assest Transfer ABAC</li><li>2. Registered sample identities to the Fabric CA.</li><li>3. Enrolled sample identities to the Fabric CA.</li><li>4. Generated certificates for the identities which are stored in Local MSP files.</li><li>5. Prepared Weekly Report</li></ol>	<ol style="list-style-type: none"><li>1. Adding attributes to the Ca Certificate.</li><li>2. Identity what is stored in existing Database.</li><li>3. Identity how ledger data is stored, (is it using DB).</li><li>4. Finding a way to stored certificate files to PostgreSQL.</li><li>5. Creating Database.</li><li>6. Store certificates to the database.</li><li>7. Retrieve the certificates from the database</li><li>8. Configure PostgreSQL to the network.</li></ol>