

# Modules

Modules	Its function
ESB Request handler	<ul style="list-style-type: none"> <li>● Parse BMD</li> <li>● Authenticate the BMD Request</li> <li>● Success <ul style="list-style-type: none"> <li>○ Create a local copy of BMD</li> <li>○ Storing BMD field in esb_request_table</li> <li>○ Put BMD request in task queue</li> </ul> </li> <li>● Fail <ul style="list-style-type: none"> <li>○ Give appropriate error message</li> </ul> </li> </ul>
Worker	<ul style="list-style-type: none"> <li>● Create fix/optimal number of worker thread</li> <li>● Available worker thread will poll the task from database after every short interval like 2 sec</li> <li>● Pick a task from blocking queue: <ul style="list-style-type: none"> <li>○ Perform ESB operation in sequence and call necessary module's function</li> <li>○ Task status Done /nonrecoverable-failure <ul style="list-style-type: none"> <li>■ Call cleanup process</li> </ul> </li> <li>○ Task status recoverable failure <ul style="list-style-type: none"> <li>■ Change status from taken to available</li> </ul> </li> </ul> </li> </ul>
Security manager	<ul style="list-style-type: none"> <li>● Perform authentication <ul style="list-style-type: none"> <li>○ Look for access token/key</li> </ul> </li> <li>● Perform validation <ul style="list-style-type: none"> <li>○ Look for mandatory/required fields of BM</li> <li>○ Look for corresponding fields in records in tables</li> </ul> </li> </ul>
Adapter for transform and transport	<p>Do the mapping with different adapter for transformation and transportation for at least these services:</p> <ul style="list-style-type: none"> <li>● Email</li> <li>● FTP</li> <li>● and SFTP</li> </ul>
Cleanup	On success or non-recoverable failure of request delete all temporary useless data corresponding to that request
Test	Will cover at least 80% of code and test it.

## Corrections :

Database manager should be added

There will be final testing as well

Cleanup and tests will be part of every modules