

# 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	<p>On success or non-recoverable failure of request delete all temporary useless data corresponding to that request</p>