

Modules

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