

# Test Strategy Document

Team 33 - InHobi

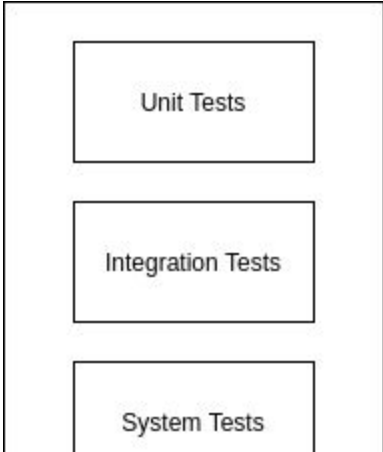
## Scope

<b>REVIEWER</b>	<b>Dev Team</b>
<b>VALIDATOR</b>	Mr. Bhupesh

Milestone: Use Case	Test Type	Due Date	Testing Mechanism
Authentication: Authentication	Unit Testing: OAuth Modules	R1	Validating POST API Response on DB
Authentication: Authentication	Integration Testing: OAuth Modules	R1	Validating GET/POST API Response on React, DB
Authentication: Authentication	System Testing: Sign Up/Login Functionality	R1	Manual verification of the functionality on the Development Server
LMS Core: Assignments	Unit Testing: Add Assignments	R1	Validating POST Request Response on DB
LMS Core: Assignments	Integration Testing: View Assignment	R1	Validating GET/POST API Response on React, DB
LMS Core:	System Testing:	R1	Manual verification

Assignments	Upload Assignment Submission		of the functionality on the Development Server
LMS Hosting	System Testing: DigitalOcean/Heroku DNS	R1	Validating GET API Response on VM's Public DNS
LMS Core: Courses	Unit Testing: Add Course Material	R1	Validating POST Request Response on DB
LMS Core: Courses	Integration Testing: View Course Material	R1	Validating GET/POST API Response on React, DB
LMS Core: Courses	System Testing: Unlock Course Contents	R2	Manual verification of the functionality on the Development Server
<b>R1 MVP</b>	<b>Acceptance Test</b>	<b>R1</b>	<b>Manually on the Development Server by the Client.</b>
LMS Core: Instructor	Unit Testing: Add Instructor	R2	Validating POST Request Response on DB
LMS Core: Instructor	Integration Testing: View Instructor Profile	R2	Validating GET/POST API Response on React, DB
LMS Core: Instructor	Unit Testing: Rate/Review Instructor	R2	Validating POST Request Response on DB
LMS Core: Instructor	Unit Testing: Rate/Review Instructor	R2	Validating POST Request Response on DB

LMS Core: Groups	Unit Test: User Feed	R2	Validating POST Request Response on DB
LMS Core: Groups	System Feed: User Feed	R2	Manual verification of the functionality on the Development Server
LMS Core: Forum	Unit Testing: Add Discussion	R2	Validating POST Request Response on Postman
LMS Core: Forum	Unit Testing: Add Post To Discussion	R2	Validating POST Request Response on Postman
LMS Core: Forum	Unit Testing: Delete & Update Posts & Discussions	R2	Validating POST Request Response on Postman
GetStream API	Integration Testing: Get Feed	R2	Validating POST Request Response on Postman
GetStream API	Integration Testing: Push Feed	R2	Validating POST Request Response on Postman



**Test Approach**

- Refer to the diagram for the levels of testing followed.
- Unit Tests were implemented and validated by the member writing the functionality.
- Integration Tests were conducted by Arjun, Chaitanya.
- System Tests were conducted by Adarsh, Joseph.
- Acceptance Tests were conducted by the Client.

## **Test Environment**

- Unittest library used for Unit Tests for Django.
- PHP Unit framework used for Unit Tests for LMS.

## **Testing Tools**

- Production Tests for R1 were written using Gitlab Pipelines.
- Jenkins used for CI/CD.
- Postman used for all backend functionality testing (API Request Issuing)