# Online Assessment and Evaluation System (OAES) Business Requirements Document

OAES is a system that can be used to conduct online examinations. Core functionality supports the entire life cycle of an examination drive.

# **Data Dictionary**

Data Item	Description
Assessment Drive	A collection of assessments conducted across multiple sessions at
	multiple centers as part of a single examination drive (e.g., JEE Main)
Hall Ticket	Personal details, Session details
Session	Drive, Subject, Center, Date, Time
Item	Question in an examination
Item Metadata	Subject, Topic, Difficulty Level, Status
MCQ Item	Multiple choice question
Descriptive Item	Essay type / descriptive answer item
Assessement Instrument	Question paper containing multiple Items
Assessment Instrument	Question paper meta data such as subject, number of questions,
Metadata	duration, total marks, etc.
Assessment Inbound Pack	A package sent to exam center for conducting an exam. It contains (a)
	Hall ticket of examinees (b) Question paper
Assessment	Conducting exam by assigning question paper and collecting responses
	from examinees
Assessment Response	Answer book containing responses from one examinee to one question
	paper
Item Response	Answer given by an examinee to a given question
Assessment Outbound Pack	A package sent from exam center AFTER conducting an exam. It
	contains (a) Collection of Assessment Response
	(b) Attendance list
Item Evaluation	Marks obtained after evaluating an answer to a question
Assessment Evaluation	Report of marks obtained after evaluating an answer book
Assessment Result	Marksheet after grading a SINGLE assessment response
Assessment Drive Result	Collection of Assessment Results of all Assessment Responses belonging
	to an Assessment Drive

# OAES-001: Item Bank Management

- CRUD operations of **ITEM** authors
- CRUD operations of **ITEM** reviewers
- CRUD operations on ITEM and ITEM METADATA
- Review and Approval of ITEM

#### OAES-002: Assessment Instrument Management

- CRUD operations on Assessment Instrument
- Review and Approval of Assessment Instrument
- ADD/REMOVE of items to Assessment Instrument
- ITEM types can MCQ and Fill-In

### OAES-003: Assessment Management

- Receive Assessment Inbound Pack
- Invoke hall ticket verification for all examinees as per Inbound Pack
- Invoke **Assessment** for all verified examinees
- Generate Assessment Outbound Pack

#### OAES-004: Assessment

- Receive Assessment Instrument
- Display all items in the instrument and collect response from examinees
- Generate Assessment Response pack

#### OAFS-005: Item Evaluation

- Manual evaluation of Essay Type Item Responses and assign grade
- Automated evaluation of MCQ Item Responses and assign grade

#### OAFS-006: Assessment Evaluation

- Invoke Item Evaluation against all responses in Assessment Response
- Generate Assessment Evaluation

## OAES-007: Assessment Drive Management

- CRUD operations on Assessment Drive
- CRUD operations on **Assessment Drive** components (sessions, hall tickets, etc.)
- Allocation of Assessment Instrument to sessions
- Generate Assessment Inbound Pack for all sessions
- Invoking Assessment Management for all sessions in Assessment Drive
- Collect Assessment Outbound Pack
- Invoke Assessment Results Management on Assessment Outbound Pack

# OAES-008: Assessment Results Management

- Invoke Assessment Evaluation for all Assessment Responses for a given Assessment Drive
- Generate Assessment Drive Result