

# Project Aladdin

Analytics & Administration



# Introduction

- ✓ In Emertxe online ecosystem, there are three stakeholders:

| Student  | Mentor   | Manager  |
|--|--|--|
| <ul style="list-style-type: none"><li>• Person who is taking up a particular course</li><li>• Has a specific goal to achieve (getting a job)</li><li>• Need to be notified real-time about performance and constantly drive for higher performance</li></ul> | <ul style="list-style-type: none"><li>• Responsible for delivering a particular training program</li><li>• Class mentor will deliver the class-room activities &amp; ensure all lab activities are done as per the compliance</li><li>• Lab mentor will supervise &amp; support students in the lab.</li></ul> | <ul style="list-style-type: none"><li>• Management person to oversee the delivery</li><li>• Ensure overall quality &amp; schedule part</li><li>• Take corrective actions</li></ul> |

- ✓ At any point in time students & mentors are part of different batches taking up / delivering different subjects

# Phases

- ✓ Emertxe Online system is planned to move into implementation in two phases. Each phase will have certain goals & objectives
- ✓ **Phase-1 (Goal: Assessment & Analytics)**
  - Real-time performance feedback for students with actionable insights. This will use as a guide & re-iterate the focus required from students to become job ready
  - Continuous improvement - Student, Staff and System
  - Efficiency improvement - Centralized system, remove process delays
- ✓ **Phase-2 (Goal: Center management)**
  - Workflow automation - Student admission to exit
  - Student communication - Placements, Ticketing system etc.
  - Fee collection - Account management, student reminder etc.

This document only has details about Phase-1. Center management taken be taken as the next step of the project.

# Assessment system Objectives

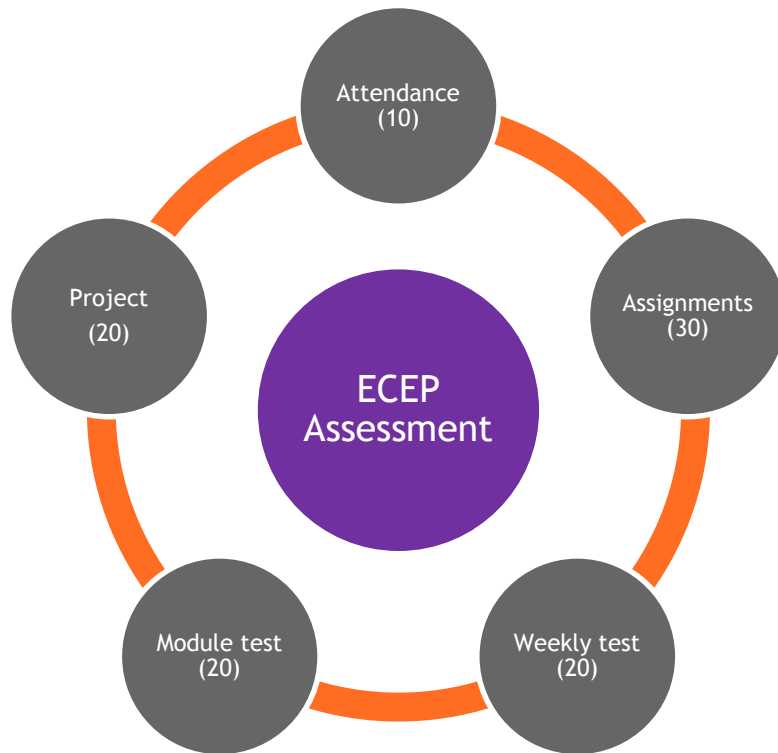


- ✓ Continuous assessment - Every day
- ✓ Holistic - Have multiple parameters
- ✓ Aligned with goal of becoming job ready
- ✓ Continuous improvement
- ✓ Do course corrections as necessary
- ✓ Motivate, Inspire and Achieve

inspire

Have an assessment system that is not based on theoretical approach, but practically understand where an individual stands. It should also point him / her to points to focus on improvements.

# Components



- ✓ Attendance: How regular you are?
- ✓ Weekly test: Technical aptitude
- ✓ Assignments: Logical/Analytical
- ✓ Module test: Concept/Application
- ✓ Project: Real-time usage

Numbers mentioned within brackets provides the weightage, overall it is integrated to 100 points / marks.

# Requirement details

## ✓ Attendance (10 points): Requirements

- Batch -> Person -> Date wise option to enter attendance
- Integration of calendar to backtrack attendance data
- Class-room (50%) and Lab-session (50%) options
- Provision to record late sessions. Three late sessions to be recorded as one absent. Pro-rate them for 10 point weightage

## ✓ Weekly test (20 points): Requirements

- Weekly tests are conducted using online assessment system (<http://test.emertxe.com>) where weekly test & module test results are stored
- The online portal should fetch this information and automatically populate it against a student / batch / subject. REST API & OAuth support available from the online assessment system. Pro-rate them for 20 point weightage

## ✓ Module test (20 points): Requirements

- Module tests are conducted using online assessment system
- It will be corrected and entered into the system by mentors
- Similar to weekly test, marks has to be fetched from assessment system using REST API / OAuth and pro-rate them for 20 point weightage

# Requirement details

## ✓ Assignments (30 points): Requirements

- Each assignment is categorized with three level complexity:
  - Easy (2)
  - Medium (3)
  - Hard (5)
- Each assignment will be evaluated based on following factors:
  - Comments in the code (1)
  - Modularity (1)
  - Output (4)
  - Ease of use (1)
  - Viva (3)
- Numbers mentioned within brackets are weightages assigned, should eventually pro-rate them for 30 point weightage

# Requirement details

## ✓ Project (20 points): Requirements

- Project demo (10 points)
  - Feature complete (5)
  - Viva (3)
  - Exception / Error handling (1)
  - Extra feature handling (1)
- Project presentation (10 points)
  - Introduction (1)
  - Visual support (1)
  - Verbal support (2)
  - Movements / Gestures (2)
  - Eye contact (1.5)
  - Organization (1.5)
  - Summary (1)



# Requirement details

- ✓ All the above mentioned categories should eventually add up to 100 points average per subject
- ✓ Depending on that points, each student need to be categorized into 5 different zones as mentioned in the right side
- ✓ Provision to be provided to email this report to individual students automatically
- ✓ This leads to different roles of this system which is mentioned as follows. Appropriate privileges to be provided detailed in next slide.
  - Manager / Admin
  - Mentor / Faculty
  - Student

|   |
|---|
| Green Zone (Value $\geq 70$ )             |
| Orange Zone (Value $< 70 \ \&\& \ > 60$ ) |
| Yellow Zone (Value $< 60 \ \&\& \ > 50$ ) |
| Red Zone (Value $< 50 \ \&\& \ > 40$ )    |
| Black Zone (Value $< 40$ )                |

# Requirement details

## ✓ Role: Admin / Manager

- Create course (Course -> Batch -> Subject / Module -> Assessment item -> Student hierarchy)
- Create subject (Compliance sheet)
- Provision to enter plan for a particular subject (Number of days, Chapter, Topics & Sub-topics, Duration, Topic wise class-work, Assignments)
- Provision to modify the plan
- Create new batch
- Add students into batch by importing their contact information
- Automated emails students on new login creation
- Provision to close a particular subject
- Provision to close the course once all subjects are completed
- Assign a particular subject to a particular mentor (along with whole plan)
- Move students between different batches
- Provision to mark student status when they discontinue / get placed
- Merge different batches
- Provision to add new logins for mentors (Class mentor & Lab mentor)
- Class mentor will have complete access. Lab mentor will have read-only access to class related parameters (Class attendance, Daily schedule)
- Verify & approve / reject assessments submitted by mentor / faculty
- Automated email notification to mentors when it is accepted / rejected
- Automated email notification to individual students once approval is done along with detailed report sent as attachment

# Requirement details

## ✓ Role: Admin / Manager

- Provision to add / modify / delete various assessment categories on a subject-to-subject basis (ex: provision to modify number of assignments in a subjects and its complexity)
- Provision to add / modify / delete weightage of assessments on a subject-to-subject basis (ex: remove projects, increase weightage of module test to 40)
- Provision to automatically adjust schedule (Holiday / Misday / Hit-day) as per the course plan
- **View current status of various batches (Manager dashboard):**
  - ✓ Total number of batches running currently with overall compliance %
  - ✓ Actual start date and end date of each module & overall time taken for a batch
  - ✓ Various assessment information across batches & subjects
  - ✓ Mentor assignments across various batches & compliance %

# Requirement details

## ✓ Role: Mentor / Faculty:

- Provision to choose a particular subject and a particular batch
- Enter all assessment information across various categories (ex: assignment)
- Entering attendance should be made easier as it is done very frequently
- Provision to mark a particular day is hit-day / miss-day / holiday
- Provision to view lab assignment progress
- Submit subject / batch wise consolidated assessment for verification with manager
- In case of rejection, provision to look into the reason, fix and re-submit for approval
- Provision to enter subjective comments for a particular student to share in the report
- **Mentor Dashboard:**
  - ✓ Total number of classes currently being handled
  - ✓ Assessment components - Total
  - ✓ Assessment components - Assessed
  - ✓ Assessment components - Pending
  - ✓ Manager approval / rejection status
  - ✓ Overall compliance %

# Requirement details

## ✓ Role: Student

- Real-time digital analytics and assistance:
  - ✓ Alert when a particular item is assigned (Assignments, Projects, Tests)
  - ✓ Alert when a student when he is ahead / lagging plan
  - ✓ Alert when a student absent for a day
  - ✓ Individual level specific recommendations for strengths & improvement areas in each assessment parameter
- View subject wise consolidated assessment (Out of 100)
- Navigate individual elements (ex: Assignment) and see how much he has scored
- Download consolidated reports per module basis
- Download final course level report with all module assessment details
- Alert to parent when he is absent for more than two days

THANK YOU