Pre Joining Program (PJP)

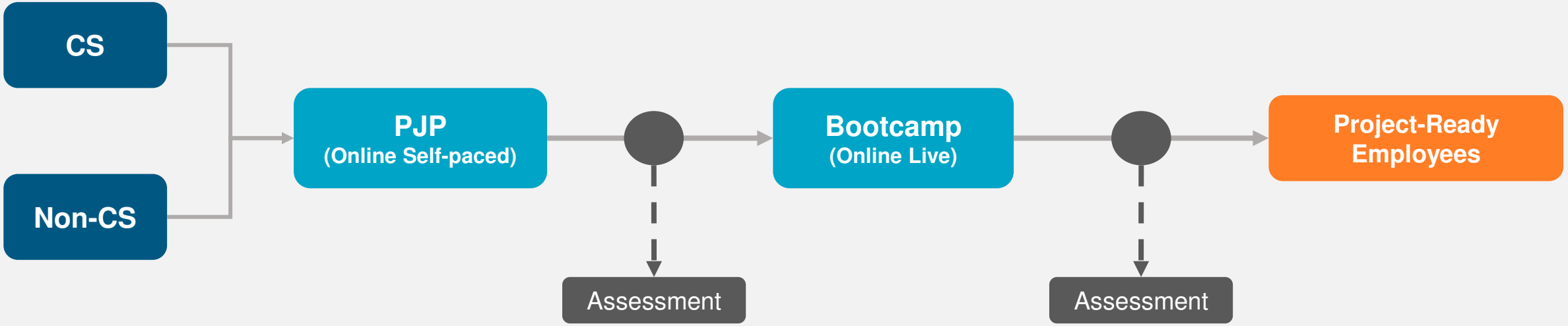
About us

Graduate Hire Training Program

Our Graduate Hire Training program comprises of:

Remote Pre-Joining Program (PJP) delivered online through self paced e-learning and webinars

Bootcamp delivered through Live Virtual classroom sessions



PJP Programs

Develops the required programmer skill set and mindset

Strengthens foundational concepts and hands-on skills and brings Non CS on par with CS students

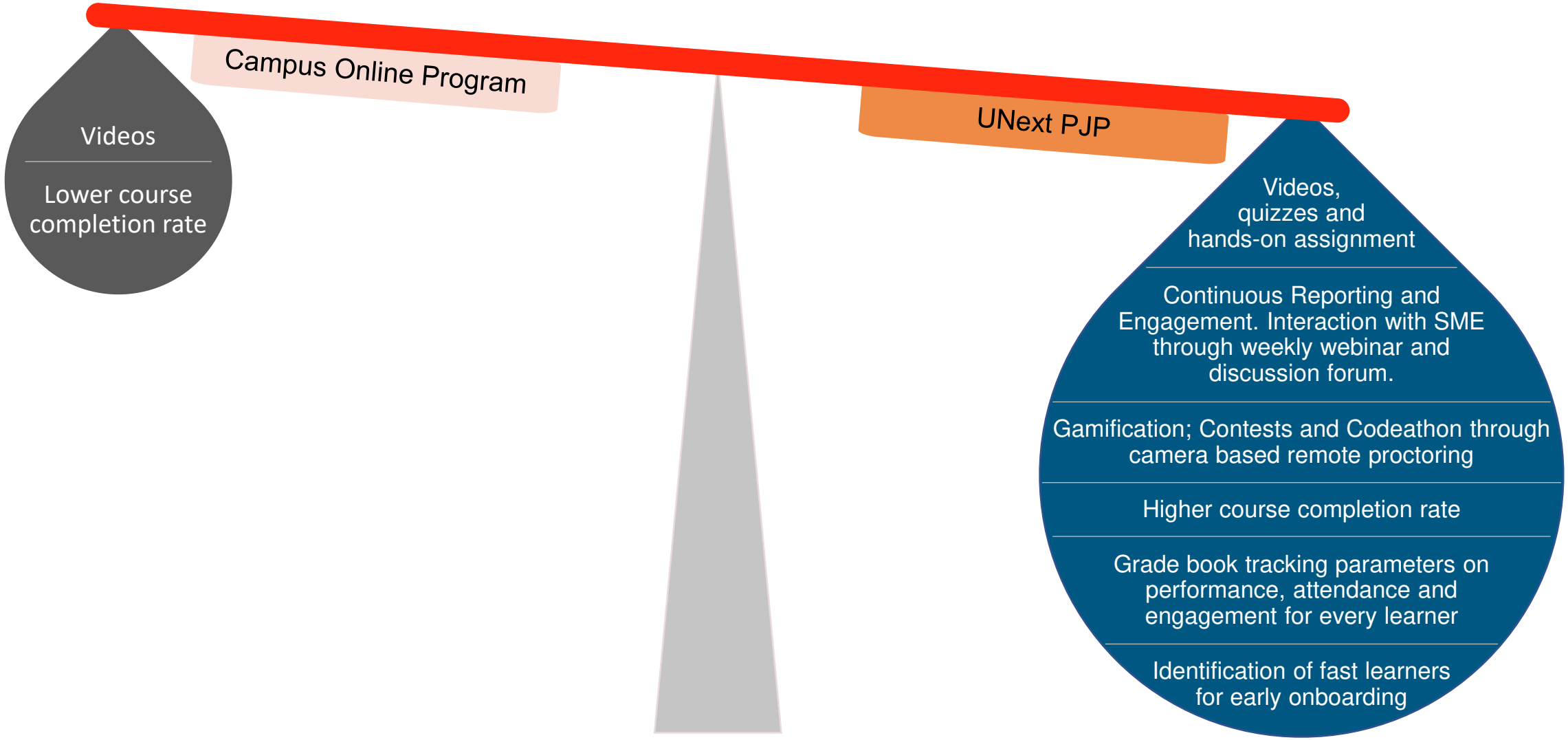
Induces the culture of online learning

Ready with required infrastructure and network connectivity

Creates the mindset of LMS (Learning Management System) portal and coding platforms

READY
for aggressive bootcamp

Traditional Programs vs PJPs



Benefits of PJP Programs

Resource Planning	Better visibility on joining numbers
Talent Retention	% increase in offer conversion – early engagement
Direct Cost Saving	# of days reduction in Bootcamp Training duration (about 10-15 days) / flexibility to cover advanced topics
Revenue	Reduction in Bootcamp Training duration leads to increased revenue through early billing

PJP Enhancements

Challenges of traditional self paced learning

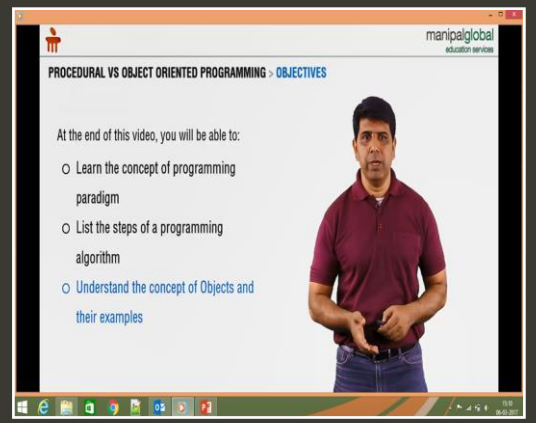
- Monotonous learning by watching videos
- Unable to measure hands-on skill development
- Only MCQ based assessment
- Learner engagement

PJP Enhancements

- ✓ Coding Platform
- ✓ Contests
- ✓ Spring/Milestone based project approach.
- ✓ Codeathon
- ✓ More Faculty connect sessions
- ✓ Camera based Remote Proctoring

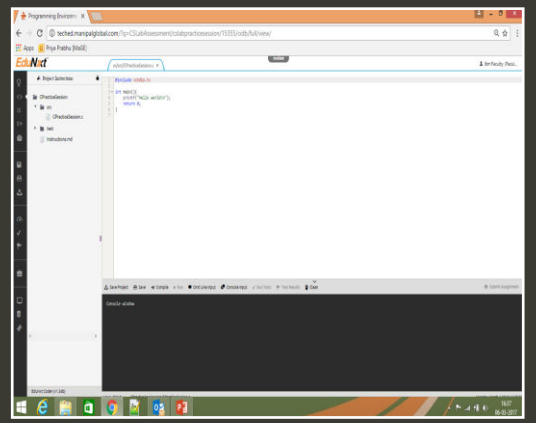
PJP: Engagement Components

Digital Learning



- Concept Videos
- Demonstration Videos
- Reading Material
- Quiz

Code Labs Remote Proctored Assessments



- Hands On Assignments
- Codeathons
- Remote Proctored Assessments

Ops Support

- Announcements
- E-mails
- SMS
- Voice Drops
- Calls

Academic Support

- ASK forum
- Weekly Webinars
- Discussion forum

PJP: Driven through the LMS Platform

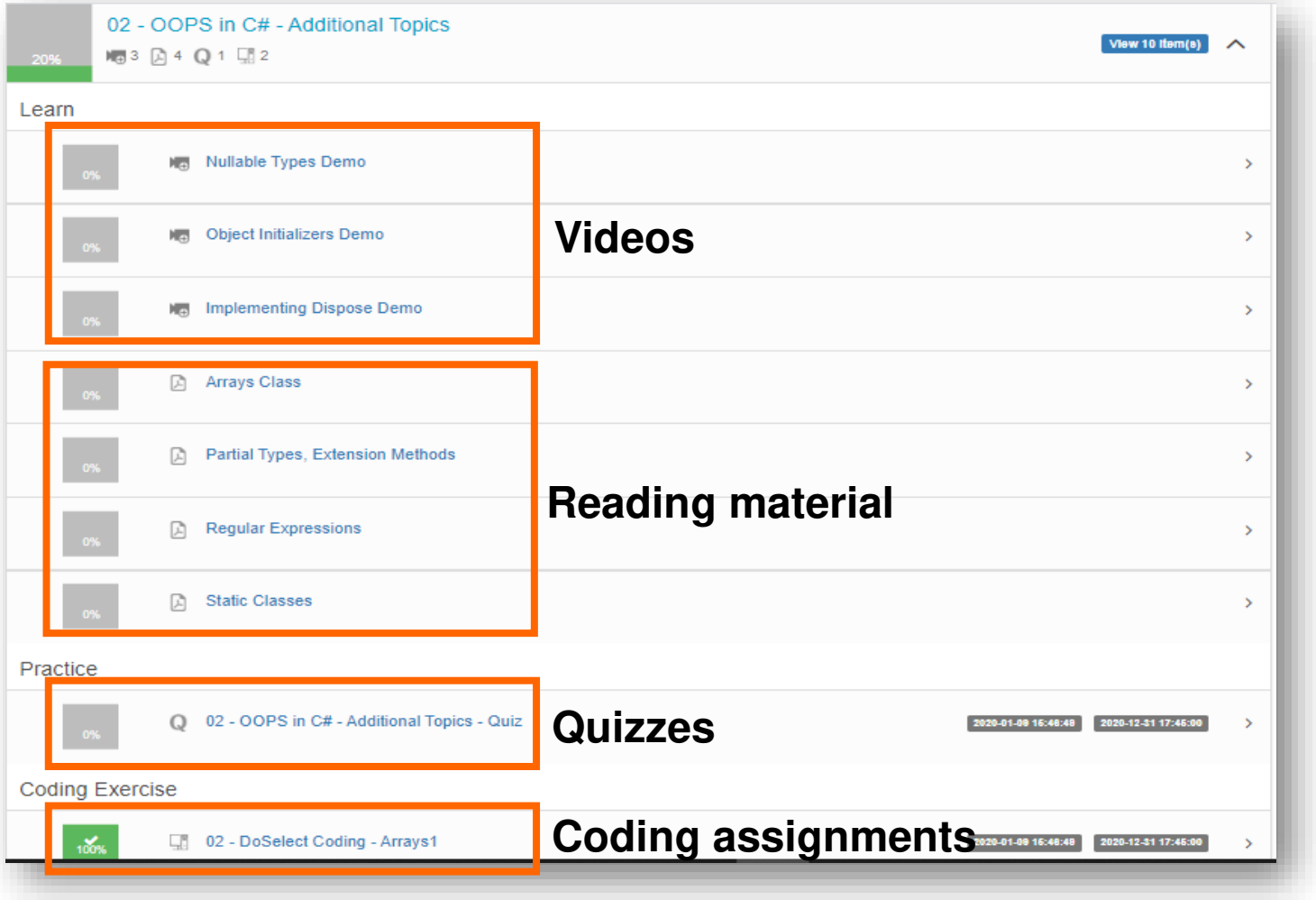
LMS platform has:

Content
- Presentation deck
- Self paced (Videos)
- Reading material
- Recorded sessions

Assignment
- Quizzes
- Coding – Integrated coding platform

Assessment
- MCQ
- Coding– Integrated coding platform
- ***Camera based Remote Proctored***

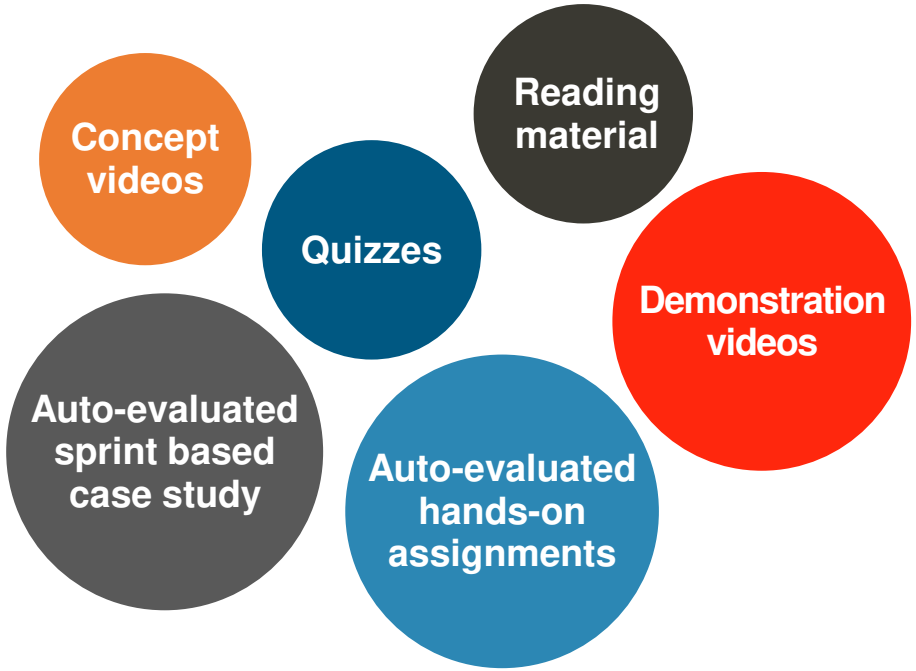
Performance
- Grade book
- Leader board



Content: Languages and Frameworks

- ✓ Java Full Stack
- ✓ Microsoft .NET Full Stack
- ✓ MEAN
- ✓ MERN
- ✓ Automation Testing
- ✓ C, C++
- ✓ DBMS
- ✓ BI
- ✓ Python
- ✓ Data Science
- ✓ Cloud
- ✓ Machine Learning
- ✓ Artificial Intelligence

- **Around 1600 hours of online content available**
- **Content includes:**



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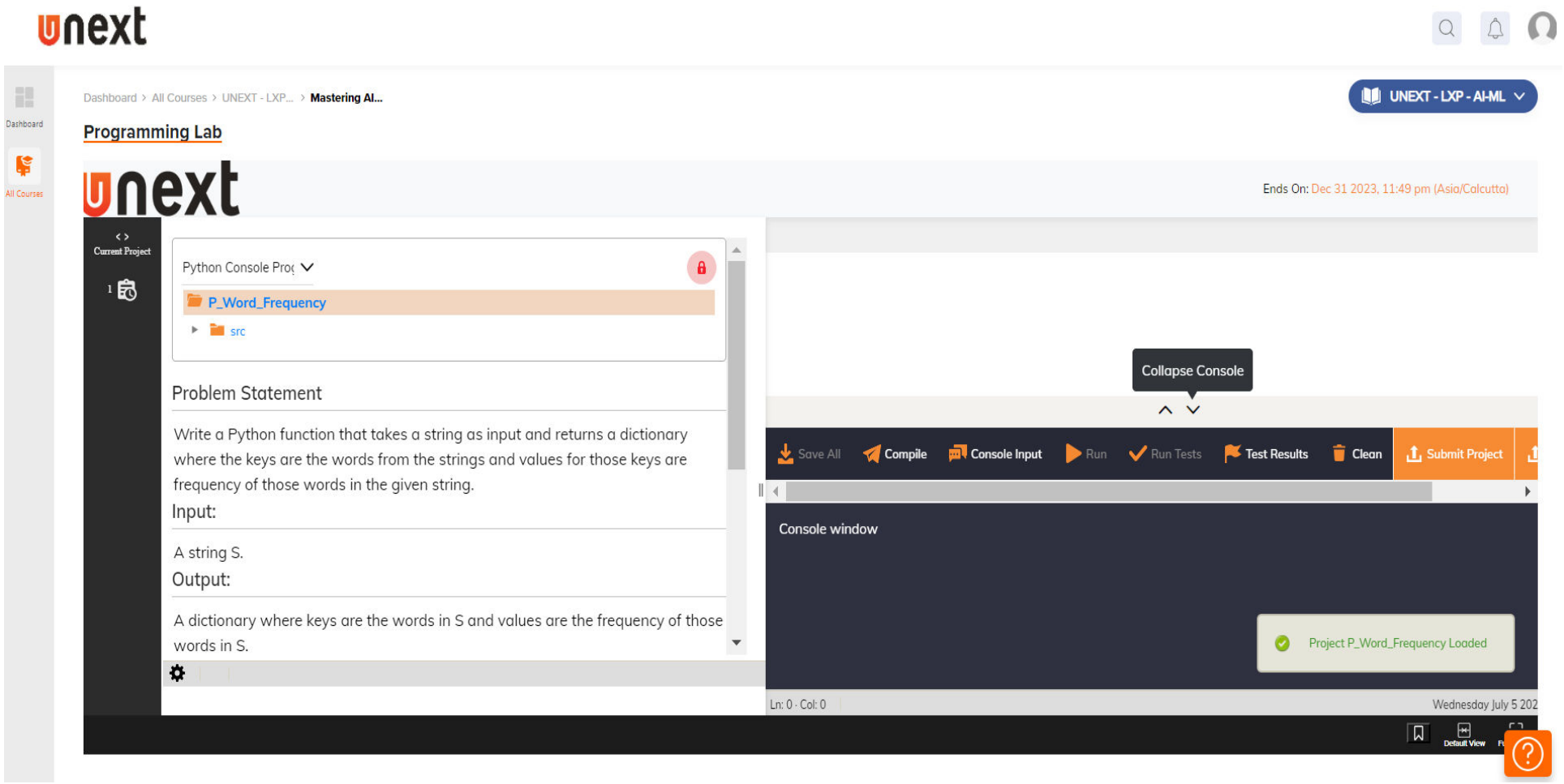
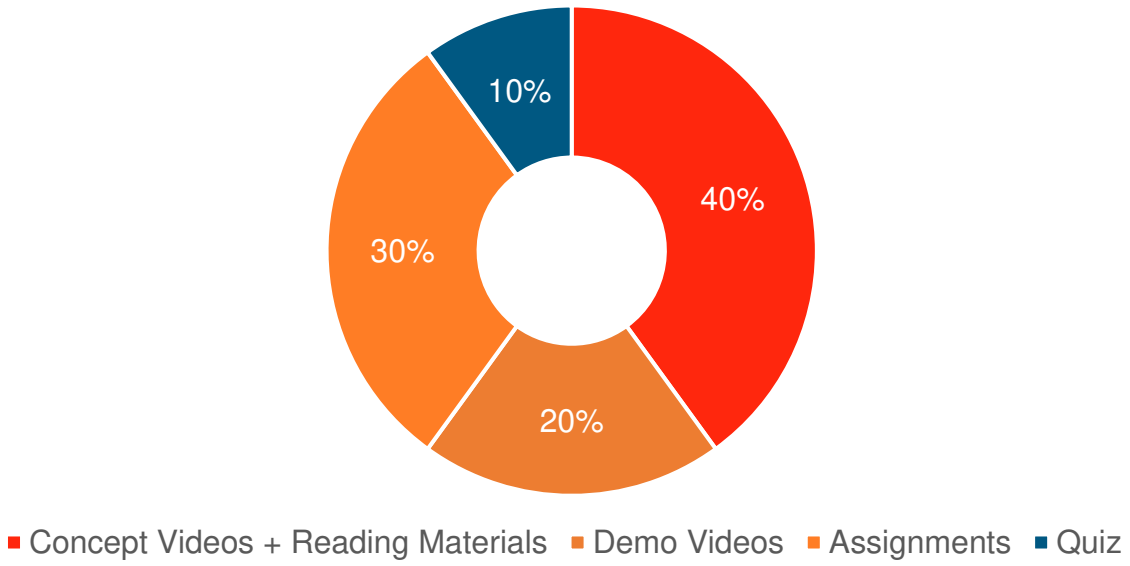
Programming Environment

Code – based Assessments



Learning Cycle



For 10 hours of learning for a hands-on module

- 4 hours of concept videos + reading material
- 2 hours of demo videos
- 4 assignment questions (3 hours)
- 20 quiz questions (1 hour)

Recommended learning hours

- 10-12 hours / week while in college
- 18-20 hours / week after college exam and before joining

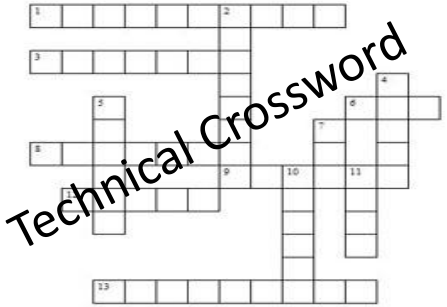
Webinar Pedagogy

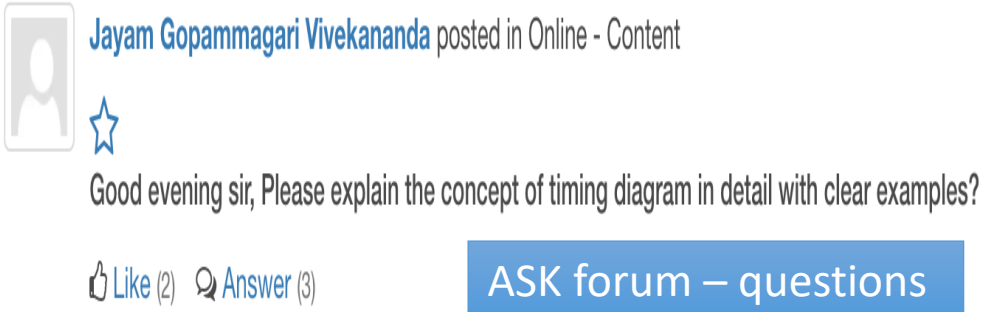
- Scheduled every week
- Announcements are sent to the students prior to the webinars

Activities conducted during webinars

Q & A Sessions

Technical Crossword





ASK forum – questions are discussed

Showcasing how each of the concepts that they learn co-relate to developing an end product(application)

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Assessments

Assessments

- Camera based ***remote proctoring***
- Preliminary system check for parameters
- Real time AI-ML based alerts on attempts to malpractice
- Automated credibility scores
- Artefacts captured for post facto verification

Person ID	Assessment ID	Date of Test [YYYY-MM-DD]	Pre Assessment – Slot 3 Dec 23 (Score)	Pre Assessment - Slot 3 Dec 23 (%)	RP Score	Status
133699	140053	2020-12-23	11	44	91	GRADED
133700	140053	2020-12-23	15	60	0	GRADED
133701	140053	2020-12-23	12	48	88	GRADED
133702	140053	2020-12-23	6	24	94	GRADED
133705	140053	2020-12-23	6	24	91	GRADED

Sample Remote Proctoring Report

CONCLUSION	FACE MATCH	CREDIBILITY
negative	96%	0%

Student profile

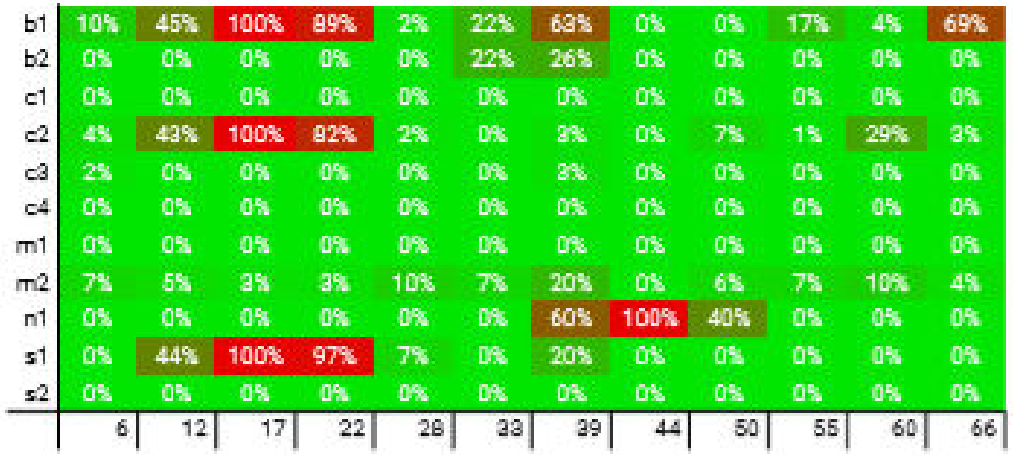
Login	AA04UTF9
Name	AA04UTF9
Gender	—
Age	—
Additionally	—

Proctoring session

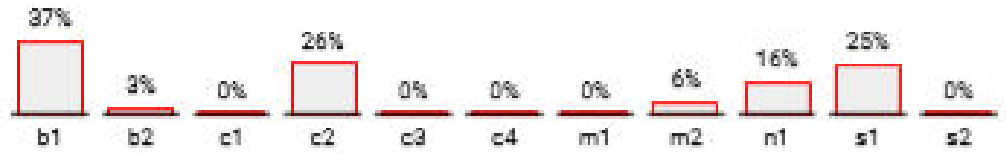
ID	MT1014903
Subject	A024647_E227501
Start date and time	8/28/2019, 9:43:14 AM (UTC)
Duration	65 min
Estimation of credibility	0%
Face match	96%
Conclusion	Negative
Proctor	—
Comment	—

Distribution of events

By time, minutes



By events

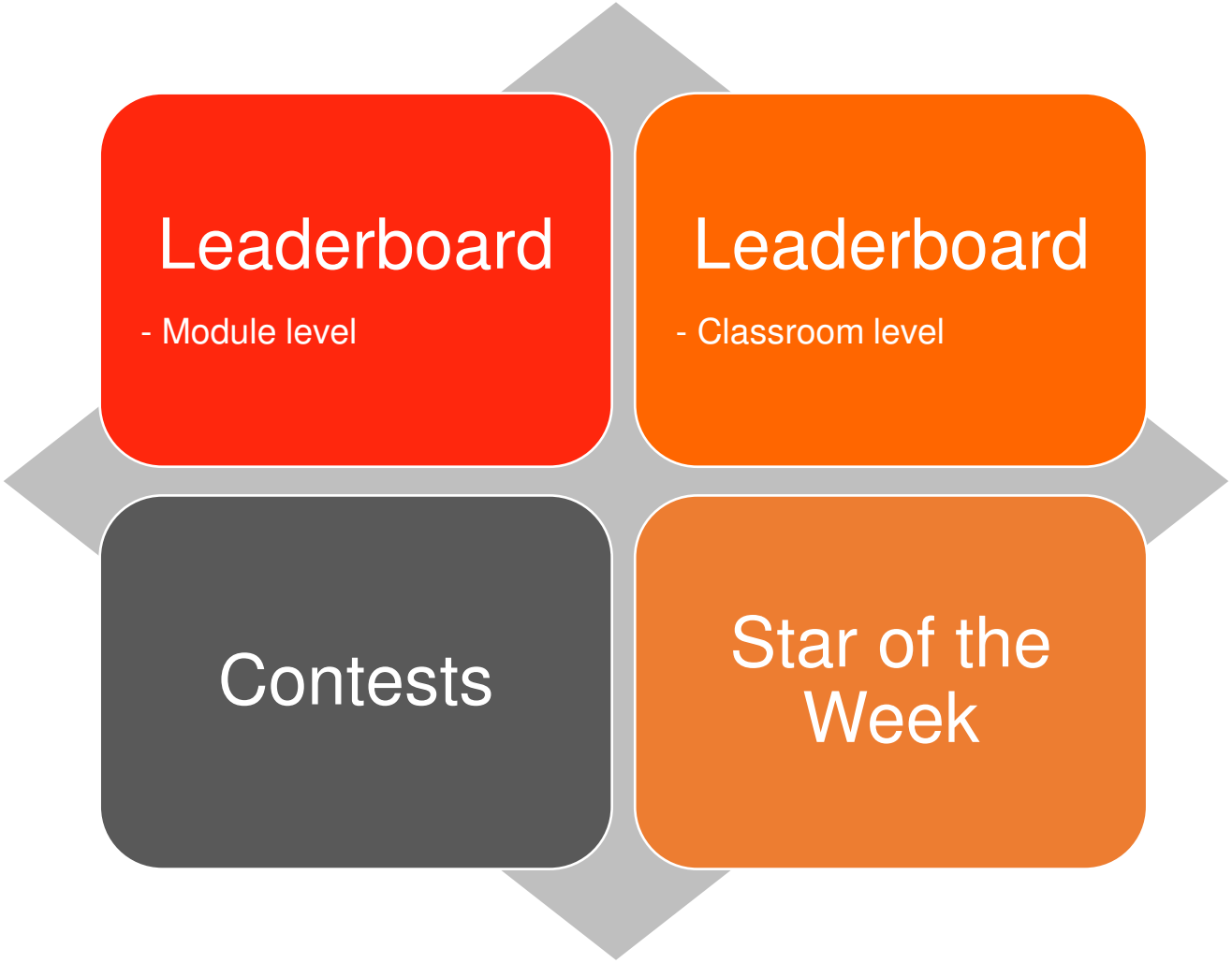


Legend

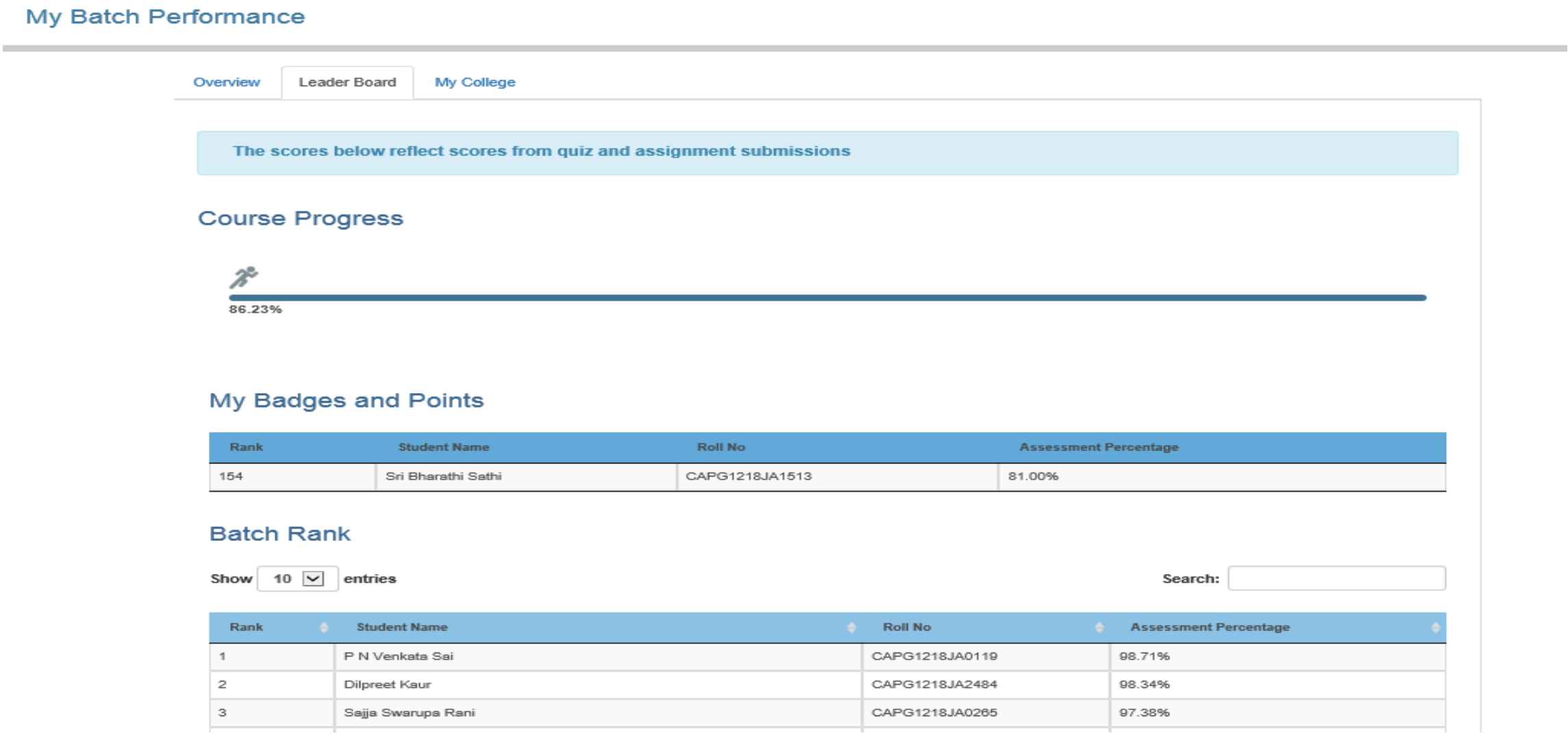
b1 – focus changed to a different window
b2 – full-screen mode is disabled
c1 – webcam is disabled
c2 – no face in front of camera
c3 – several faces in front of camera
c4 – unidentified face in front of camera
m1 – microphone is muted or low volume
m2 – conversation or noise in the background
n1 – no network connection
s1 – no video from screen
s2 – additional display is connected

Gamification

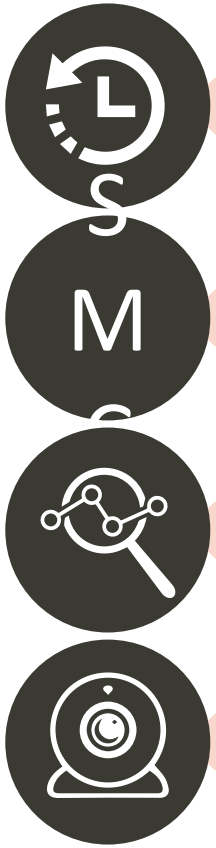
Gamification



Leaderboards



Contests



20 questions to be solved in 20 minutes

Custom Mix of Complexity

Simple – 30%
Medium – 30%
Complex – 40%

Analytical and Application based questions

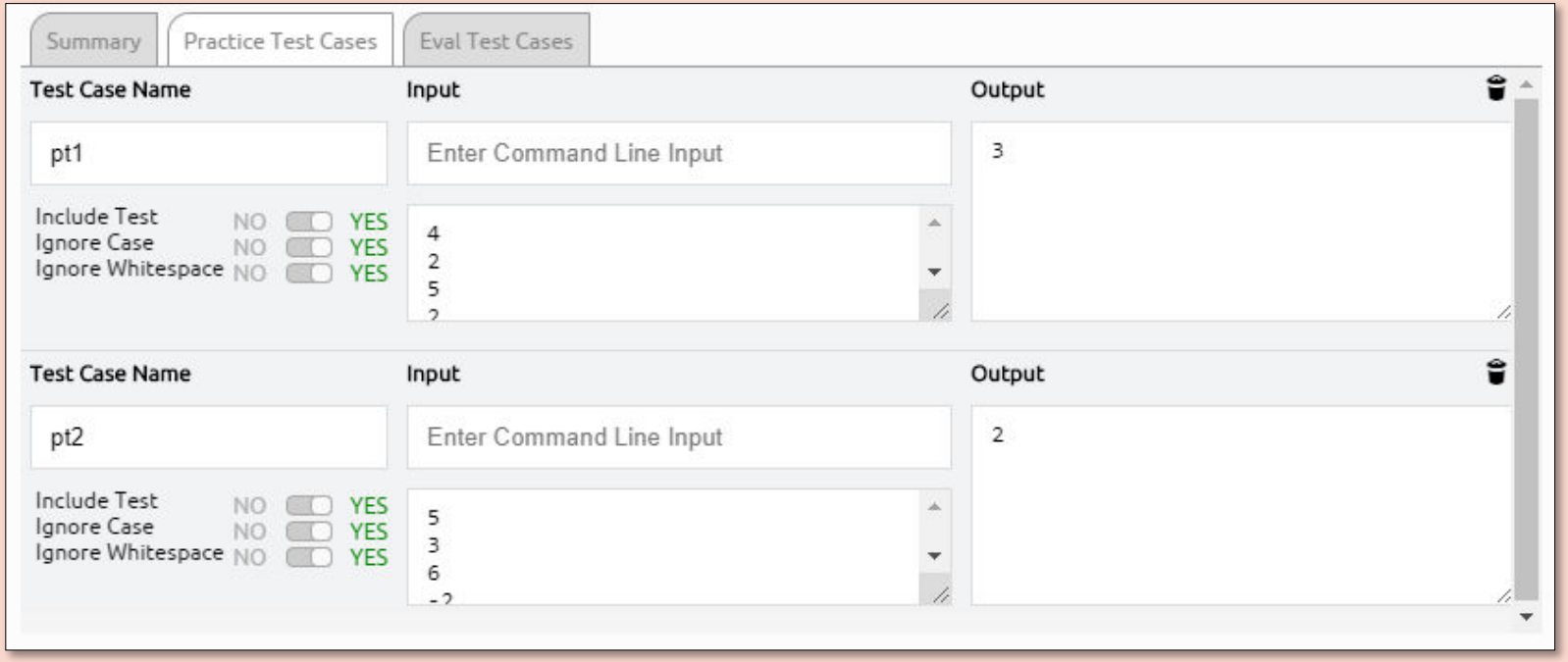
Camera based remote proctoring

Code-a-thon

- 2 problem statements
- 40 minutes
- Camera based remote proctoring

Rubric	
Criteria	**Marks**
Compilation	10
Practise Test Cases	20
Hidden Test Cases	50
Clean Code	20

Black Box test cases

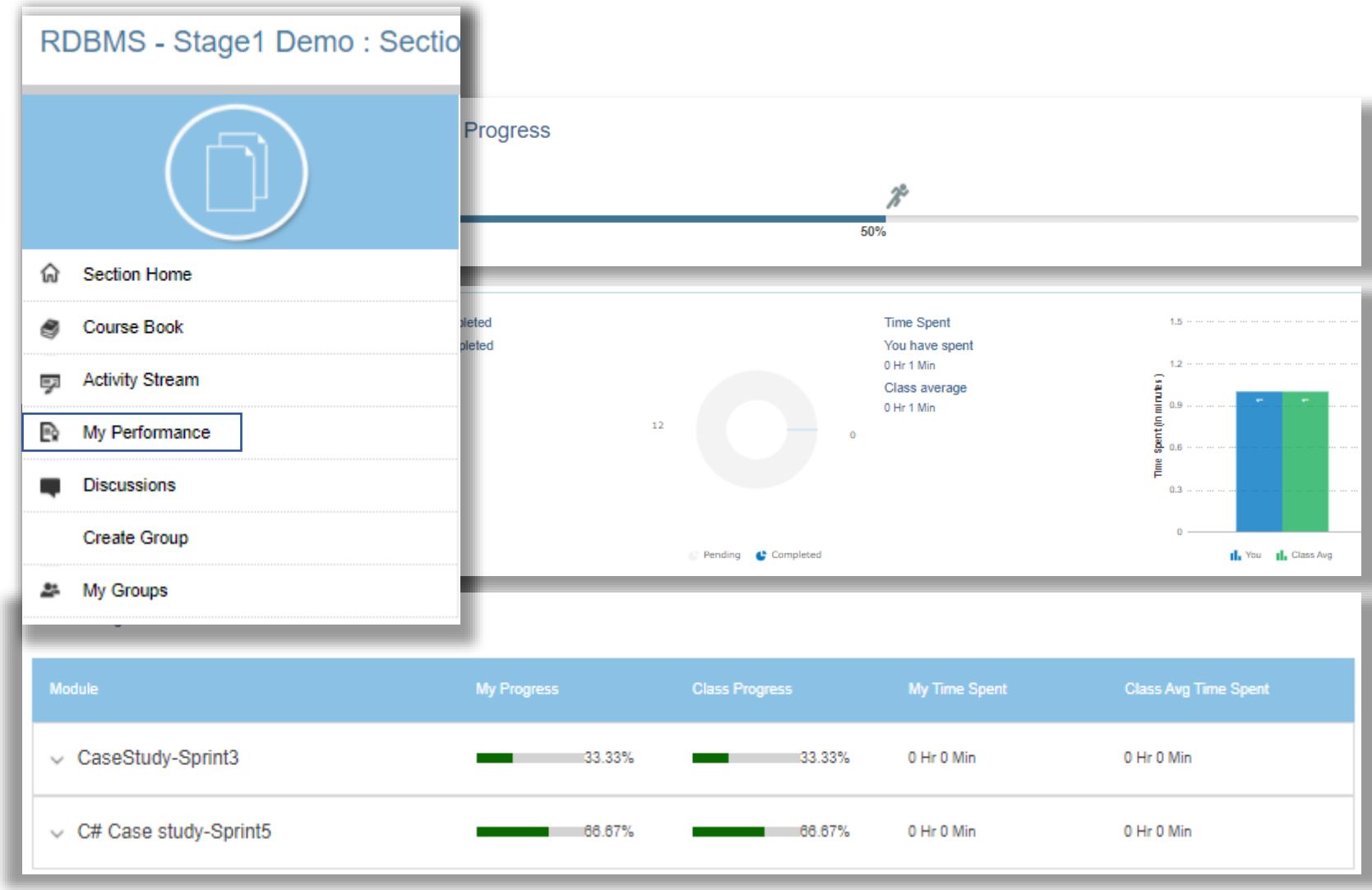


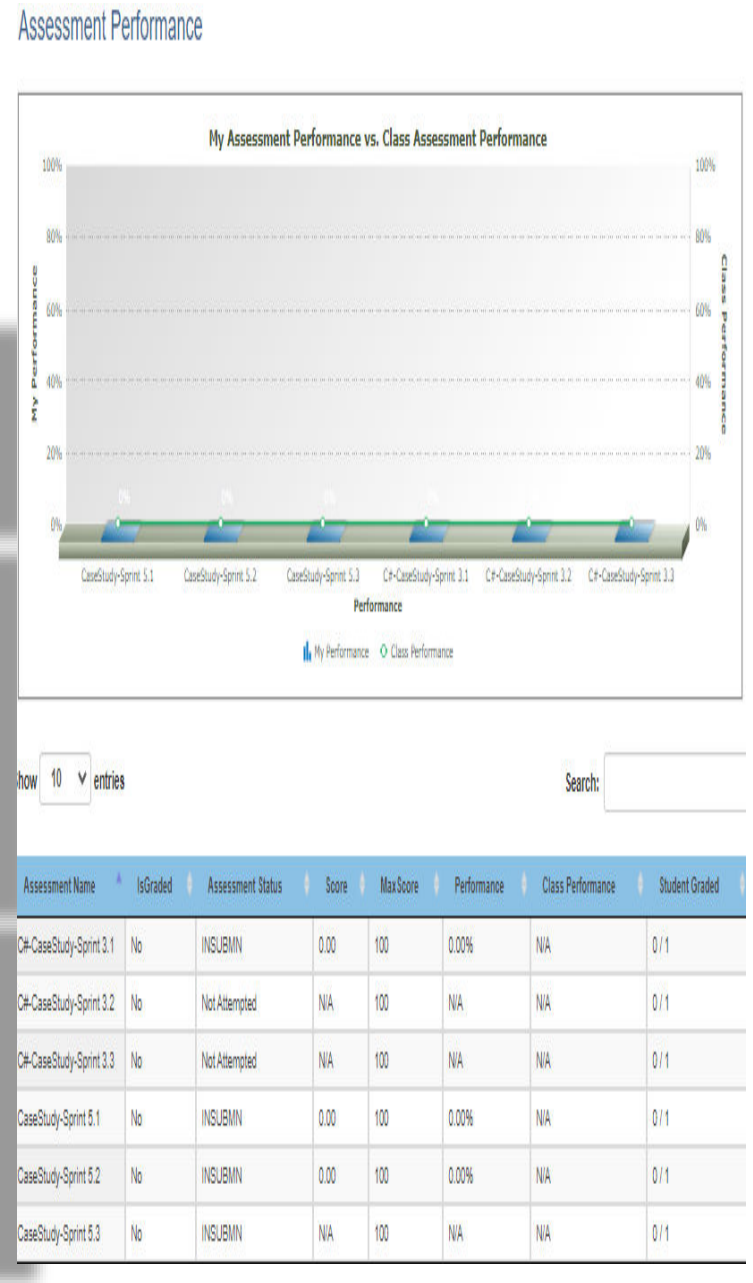
White Box test cases

```
@Test
public void UTC_03() {

    String []args = {"-12", "asd", "123"};
    String expectedResult = "FIRST ARGUMENT SHOULD BE >0\n";

    SumAndAverageOfInputs.main(args);
    String actualResult = myOutStream.toString();

    assertEquals(expectedResult, actualResult);
}


@Test
public void UTC_04() {

    String []args = {"2", "asd", "sdf"};
    String expectedResult = "THE SUM IS 0.0\n";
    expectedResult += "THE AVERAGE IS NaN\n";
    expectedResult += "NUMERICAL INPUTS 0\n";
    expectedResult += "NON NUMERICAL INPUTS 2\n";

    SumAndAverageOfInputs.main(args);
    String actualResult = myOutStream.toString();

    assertEquals(expectedResult, actualResult);
}
```

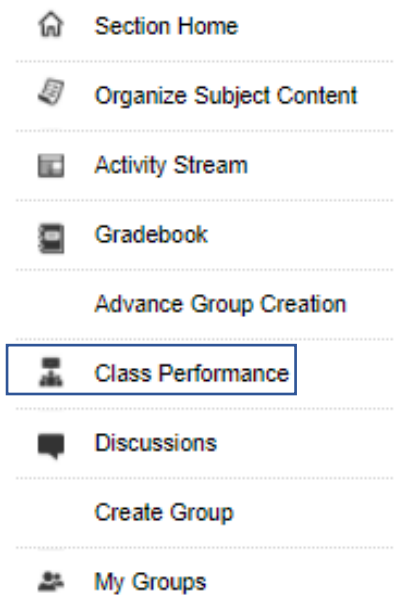
Reporting & Insights

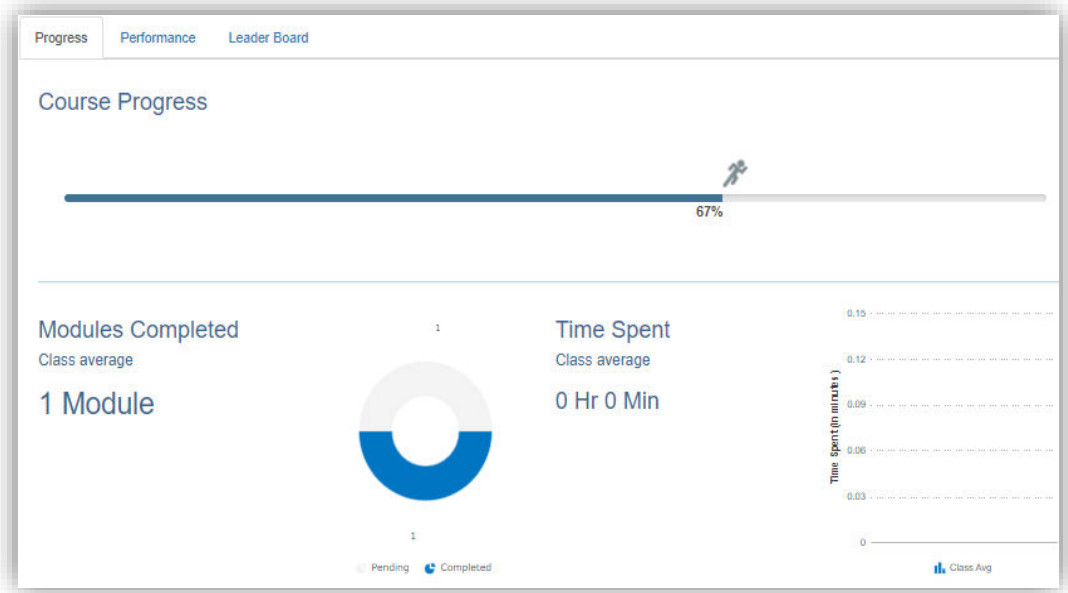
Student Dashboards

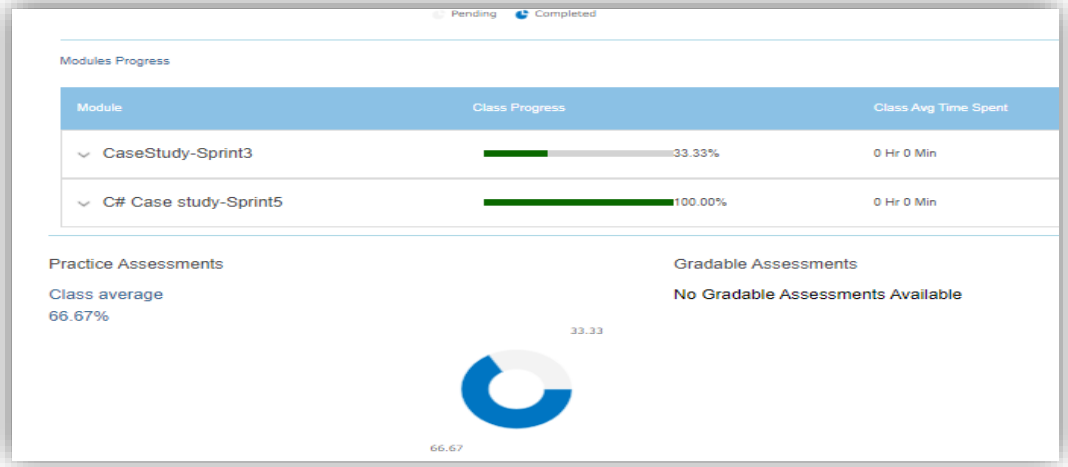




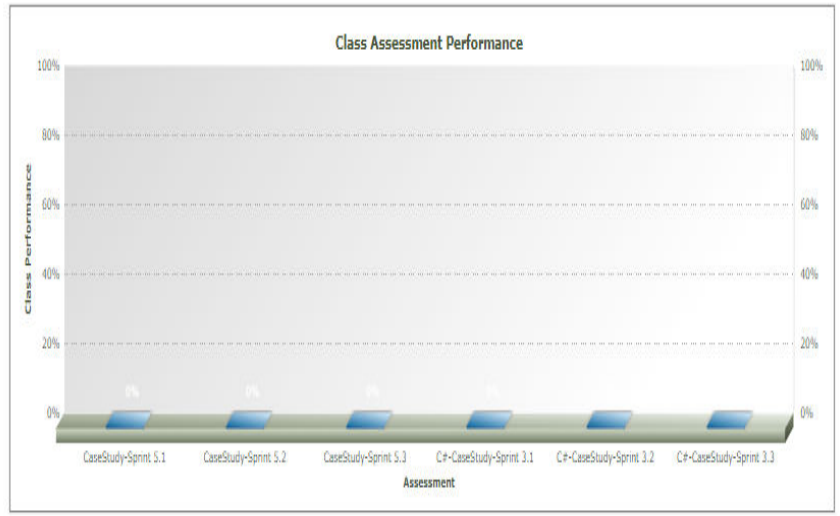
Faculty Dashboards







Assessment Performance



Show 10 entries Search:

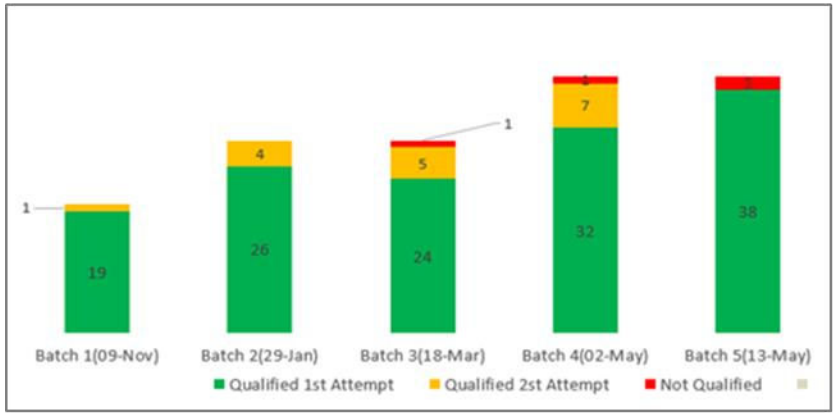
Assessment Name	Student Graded	Class Performance
C#-CaseStudy-Sprint 3.1	1 / 1	0.00%
C#-CaseStudy-Sprint 3.2	0 / 1	N/A
C#-CaseStudy-Sprint 3.3	0 / 1	N/A
CaseStudy-Sprint 5.1	1 / 1	0.00%
CaseStudy-Sprint 5.2	1 / 1	0.00%
CaseStudy-Sprint 5.3	1 / 1	0.00%

Showing 1 to 6 of 6 entries

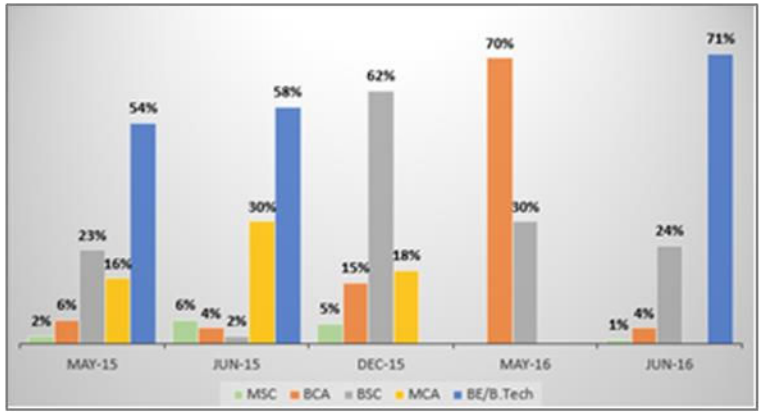
Previous 1 Next

Custom Reports/Dashboards

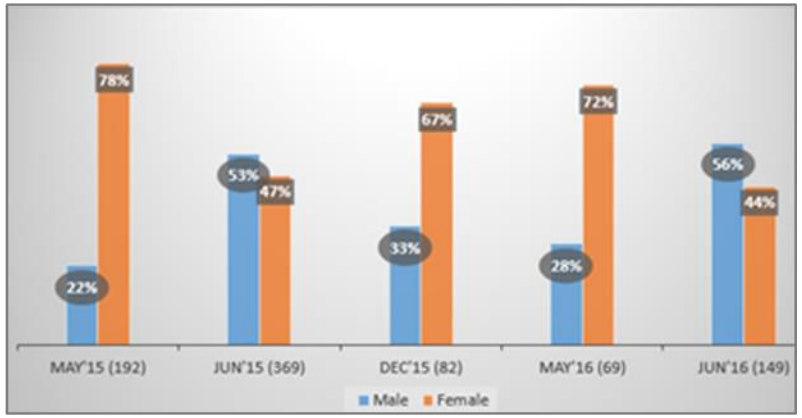
- LMS access to key client representatives to track progress of their learners
- Attendance Reports / Faculty feedback on Learner progress / Performance reports and more
- Additional Reports can be provided based on requirements from clients
- LMS to be integrated into client's IT Systems for seamless data flow



Batch Performance



Education Qualification



Learner Demographics

Module Name	Campus to Corporate	SPT	Communication skills 1	SE&SSAD	Team Building	OOPS	OOAD & UML	Testing	Basic Unix & Shell Scripting	DBMS (Using Oracle)	Intr. To Client Server Archi	HTML,CSS & JAVA SCRIPT
End Date	28-May	31-May	01-Jun	03-Jun	04-Jun	06-Jun	09-Jun	11-Jun	16-Jun	16-Jun	24-Jun	27-Jun
	4.48	-	-	-	4.95	-	-	-	-	-	-	-
	4.64	-	4.7	-	4.81	-	-	-	-	-	-	-
	-	4.26	-	-	-	-			4.5	-	-	-

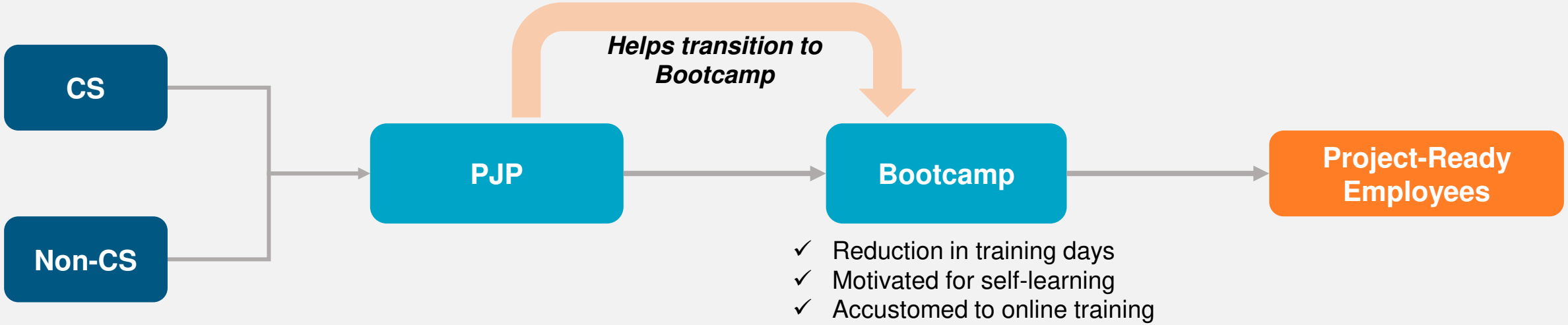
Faculty Feedback

Range	2016-B1	2016-B2	Total	Total	Results
	Count	Count	Count	%	Status
60 & above	31	31	62	90	Pass
50-59	4	3	7	10	Fail
40-49					Fail
30-39					Fail
20-29					Fail
	35	34	69		

Assessment Result Dashboard

Readiness for Bootcamp

PJP -> Virtual Bootcamp



Mini Project

Better Hands-on Skills

- **Sprint based project development**

Readiness for Virtual Classroom

- Learn to troubleshoot issues and imbibe the culture of self-learning
- Responsible for individual participation, doubt-clearing
- Testing the code
- Discipline – meet deadlines
- Get used to the culture of remote proctored assessments
- Team work through ASK forum

Sample Curriculum

Foundation (4 Weeks)	Course Duration (Hours)
Pre-assessment	
Software Engineering Concepts and Introduction to case study	10
RDBMS Concepts & SQL Using Oracle	30
Sprint 1 - Case Study	10
HTML 5, CSS 3 & JavaScript	40
Contest (MCQ)	
Sprint 2 - Case Study	10
Codeathon	
Stage 1 Final assessment (MCQ + Coding)	
Total No. of Hours	100

- ✓ Working on real life Case Study Problem statement
- ✓ Solve at least 25 code based problems as part of each sprint
- ✓ Application based learning for better retention
- ✓ Student is continuously evaluated on all the components

Stage1	**Assessment**	Case Study	contest1(MCQ)		final assessment	Total
	Eval Criteria(%)	25	15		60	100
Stage2	**Assessment**	Case Study	contest2(mcq)	codeathon	final assessment	Total
	Eval Criteria(%)	40	5	15	40	100


Thank You