

Evaluation

No	Name	Type	Duration	Weight	Day, Date, Session, Time
EC-1	Assignment-1		-	10%	TBA
	Assignment-2		-	20%	TBA
EC-2	Mid-Semester Test	Closed	2 hours	30%	TBA
		Book			
EC-3	Comprehensive	Open	3 hours	40%	TBA
	Exam	Book			

Assignment

- Teams of 4 to 5 People
 - 4 is preferred team size
 - 5 is max team size
 - You can reuse your existing team from other subjects
 - CRs to send Team details by End of day Monday 27th Sep 2021
- Build a Cross Platform App
 - Assignment 1 = 10%
 - Assignment 2 = 20%
- Deadline
 - Assignment 1 : Oct 22, 2021 before Mid Term Exams
 - Assignment 2 : Dec 15, 2021- before Final Exams

Schedule

Dates	Flipped Class			
Contact Session 1	28-08-2021			
Contact Session 2	11-09-2021			
Contact Session 3	18-09-2021	Lab Session 1 on Weekdays evening slot(between CS 3-CS 5)		
Contact Session 4	25-09-2021			
Recorded Session		Oct 2nd - Gandhi Jayanthi		
Contact Session 5	09-10-2021			
		Oct 15th/16th - Dussera Weekend		
Mid Semester Exam-1	24-10-2021	SUNDAY		
Mid Semester Exam -2	31-10-2021	SUNDAY		
		Make-up 2nd,5th Nov		
Contact Session 6	06-11-2021			
Contact Session 7	13-11-2021	Answer Sheet Distribution		
Recorded Session	20-11-2021			
Contact Session 8	27-11-2021			
Contact Session 9	04-12-2021			
Recorded Session	11-12-2021	Lab Session 2 on 11th Dec or on weekdays between CS 8-CS 10 / Compensatory Session		
Contact Session 10	18-12-2021			
		Dec 25th - Christmas		
End Semester Exam-1	02-01-2022	SUNDAY		
End Semester Exam -2	09-01-2022	SUNDAY		
		Make-up 12th,13th Jan 2022		
Answer Sheet Distribution(HARD	16-01-2022			
		Feb 19th Tentative start date of next sem		

Submission Guidelines

- Source Code to be checked into GitHub
 - Under Org CPAD2021SecA or CPAD2021SecB
 - MIT Licensed https://choosealicense.com/licenses/mit/
 - Repository Naming Convention _____
 - Readme.MD file
 - Team Name
 - Team Members Name, BITS Roll Number, BITS Email ID, Github ID
 - At least one check-in by each team member
 - CRs to email the GitHub Ids of the class so that I can add them to the orgs
 - By end of day Monday 27 Sep 2021

Evaluation

- Assignment 1
 - Proposal/Design
 - Presentation by Team (if time permits)
 - Presentation to be checked / submitted into GitHub
- Assignment 2
 - Demo from Source Code in GitHub

App

- Minimum functionality
- Excluding Sign-in / Sign-out
- Social Logins for the App

Front End

- Flutter Dart
 - Cross Platform
 - Two Mobile iOS and Android [OR]
 - Web and 1 Mobile (either Android or iOS)
 - Social Login

Backend

- REST / GraphQL
- Backend Options
 - Build Your Own
 - KeystoneJs
 - Hasura.io
 - Firebase others
- Admin Screens (Optional)
 - React-Admin
 - KeystoneJS
 - Admin-bro
- Hosted on your favorite location
 - Heroku
 - AWS
 - Hasura.io
 - Others
 - On your laptops

Backend Frameworks

- GraphQL
 - KeystoneJs Server
 - Hasura Server
 - RedwoodJS JAM Stack
- REST
 - Firebase Cloud Functions Serverless
 - Netlify Cloud Function Serverless

KeystoneJS

- URL: https://keystonejs.com/
- DB (Prisma.io)
 - Postgres (free tier available in Heroku)
 - SQL Lite
- API GraphQL
- Admin Screens
- Social Login to be done
- Code: Low Code / Javascript / Typescript

Hasura

- URL: https://hasura.io/
- API GraphQL
- DB Postgres
- Admin Screen React-Admin external framework
- Code: Low Code/Javascript/SQL
- Free Hosting is available

AWS AppSync

- https://aws.amazon.com/appsync/
- API: GraphQL
- Code: Functions / Lambda Javascript
- DB: Dynamo DB

Loopback.io

- URL: https://loopback.io/
- API:REST (option for GraphQL)
- DB: Lot of Options
- Code: Javascript
- Hosting : On your own

RedwoodJS

URL: https://redwoodjs.com/

API: GraphQL

• DB: Prisma.io (Postgres...)

• Code: Javascript

Heroku

https://www.heroku.com/pricing

React-admin

https://marmelab.com/react-admin/