

Prodapt e-learning Portal

High level requirement:

- Develop a Prodapt online eLearning portal for new employee or freshers to Learn technologies, Domain, etc., This application should be extended to any other teams/Project.
- Admin users should have capability of creating sessions or courses by uploading contents in to the tool.
- The application should list down all the courses which are not taken by the Employee. The employee should have access to opt or self nominate for any courses with their RM approval.
- The approval of the course opted by the prodaptian will be done by their RM. The RM or supervisor also has an option to nominate their reportee for any courses.
- When a prodaptian opts for a course an email will be triggered to their supervisor for the approval. The supervisor will approve the request after that only the course will be visible for that particular prodaptian
- It should also be designed as responsive such a way that it supports mobile, so that prodaptians will be able to receive notifications regarding the addition of new courses
- The content uploaded by the admin should be either in ppt, pdf or in text format and it will be displayed as image
- At the end of each course there will be assessment which has to be taken compulsory to receive course completion certificate.
- The assessment will be connected to Survey Pro application where Admin can add the questions and a link will be generated for the users to attend the assessment
- After clearing the assessment, a course completion certificate will be generated and will be sent as email to the attendee's and their supervisor's

Need for Prodapt e-learning Portal:

1. All prodaptians can utilize this application for their learning
2. To show that we are digitally transforming

The portal contains 2 different user roles:

1. Admin - Presenter
2. User - Attendee

Basic Functional flow:

1. User will login to this application with the LDAP credentials
2. Admin will upload the content in this application
3. 3.a supervisor can nominate specific courses to the User and once nominated, email will be sent to that User

3.b User can also choose the courses. Once the course has been chosen, an email notification will be triggered to their supervisor, where the supervisor has to acknowledge by accepting the request from the User.

4. Once after the acknowledgment from Admin, User will be able to view the content of the courses, till then user can see only the overview of the courses. No. of registrations and nominations should be stored in reports.

5. After every course has been completed, the User should take assessment and scores will be generated based on the assessment.

6. E-Certificate will be provided for the user who has completed the course, which can also be downloaded.

Content storage:

File System:

Though file can be stored in the database as a BLOB, but that will affect the performance of the application, hence it will be efficient to store the content in the file system

Pros of the File System

- **Performance** can be better than when you do it in a database.
- **Saving the files and downloading them in the file system is much simpler** than it is in a database since a simple "Save As" function will help you out. Downloading can be done by addressing a URL with the location of the saved file.
- **Migrating the data is an easy process.**
- **It's cost effective** in most cases to expand your web server rather than pay for certain databases.
- **It's easy to migrate it to cloud storage**

Cons of the File System

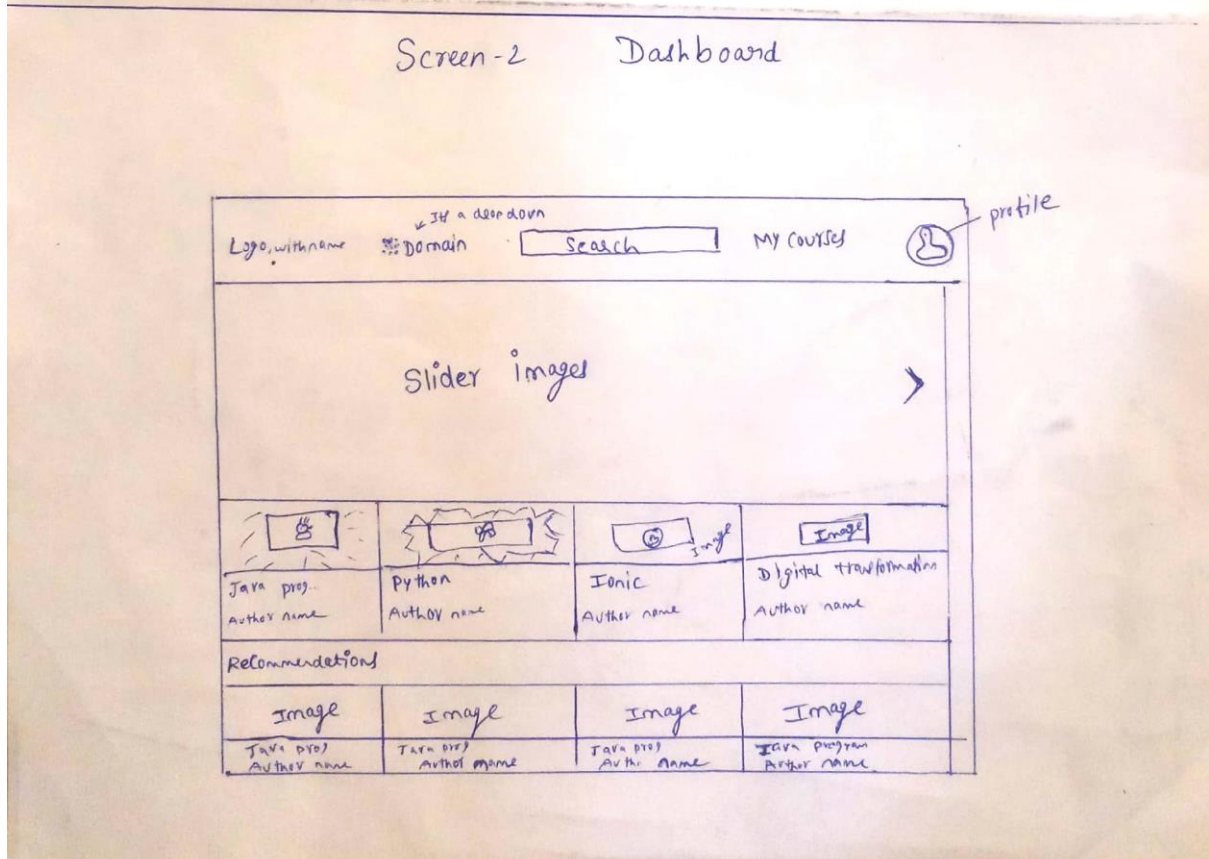
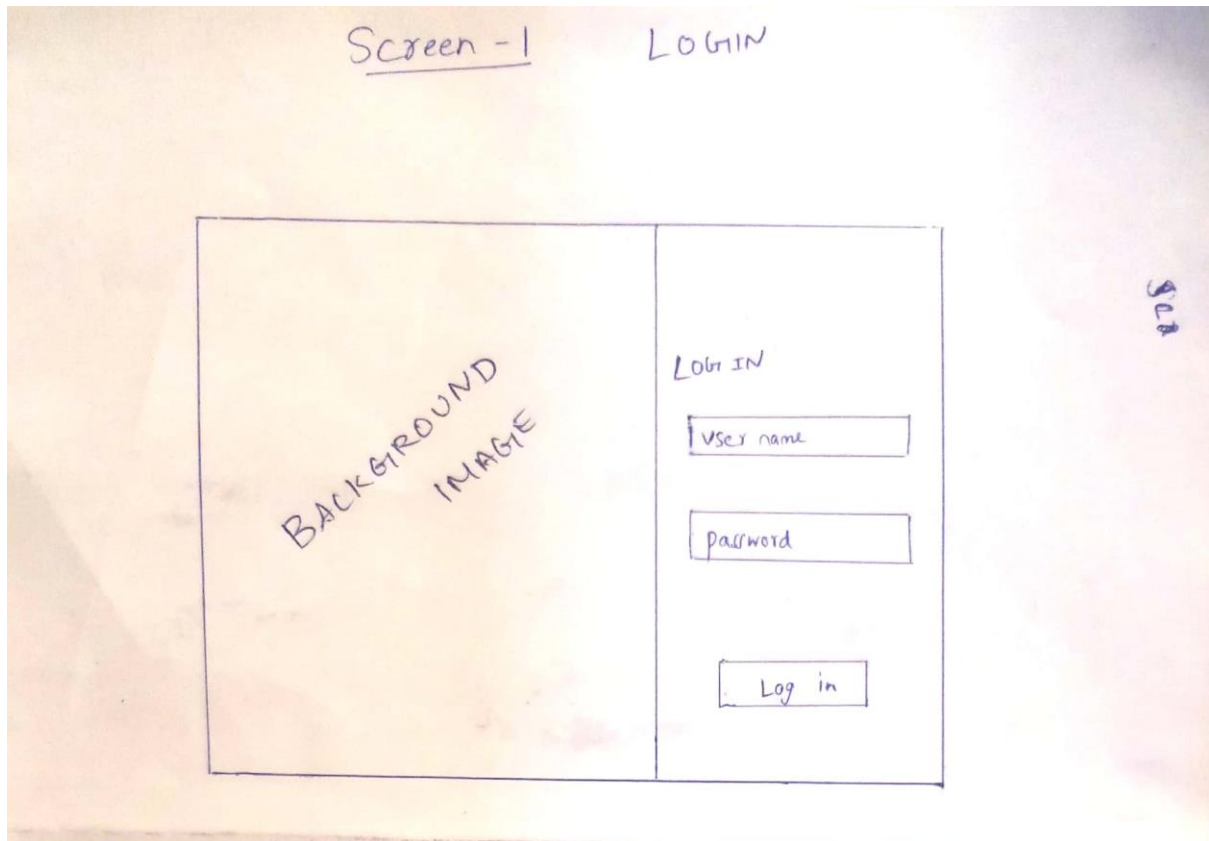
- **Loosely packed.**
- **Low security.**

Use Cases

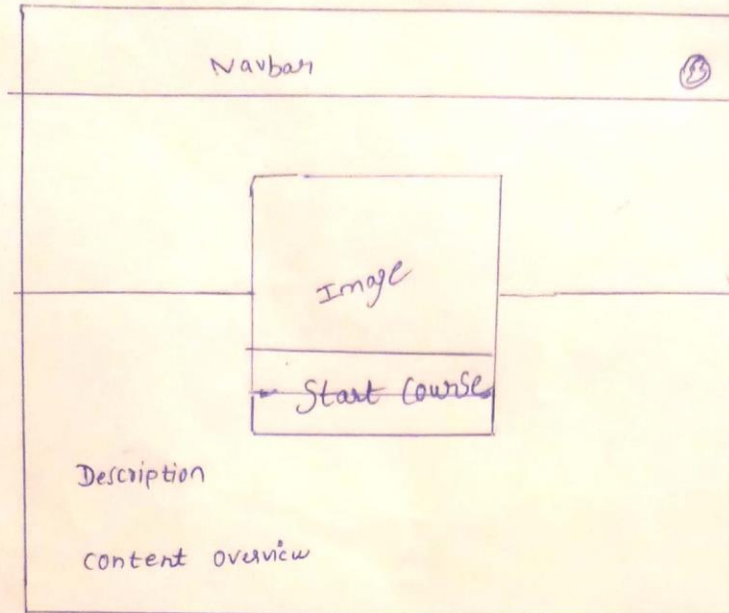
- **If your application is responsible for handling large files** (i.e. over 5MB) and the lots of file uploads.
- **If your application will have a large number of users.**

UI SCREENS:

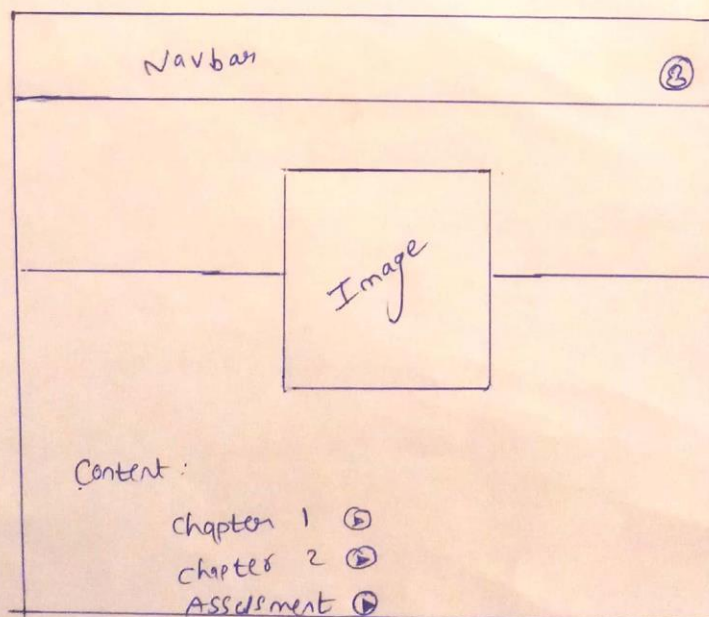
USER:



Screen 3 - Desc



Screen 4 - Course



Screen 5. Content

1 of 20
Content
◀ ▶

Screen 6 : Assessment (Integration with survey pro)

Survey pro
1)
2)
3)
4)
5)
...
10)

ADMIN:

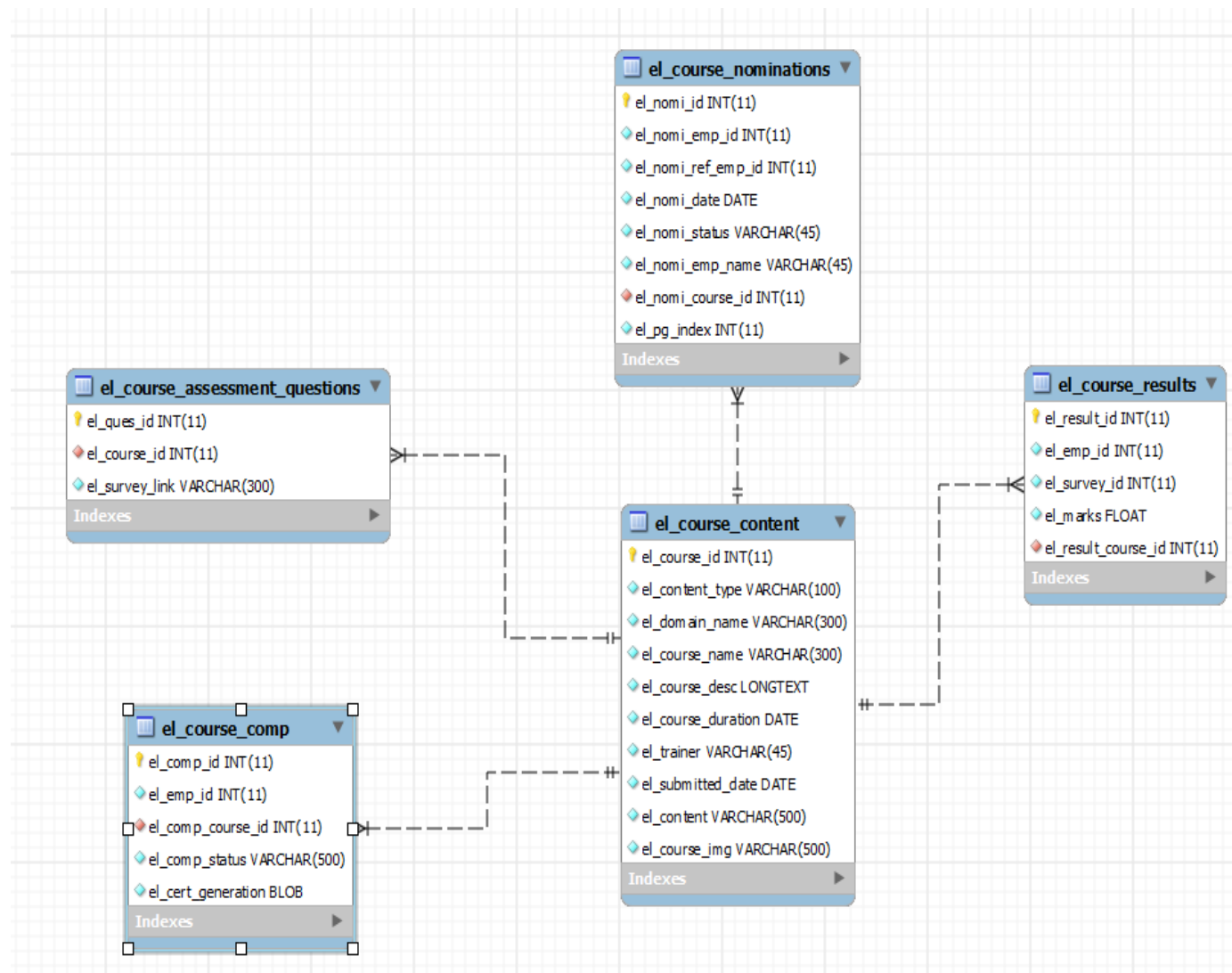
Screen 1: Admin

Logo with name	<input type="text" value="Search"/>	Add course	83
<div>Image</div>	<div>Image</div>	<div>Image</div>	<div>Image</div>
<div></div>	<div></div>	<div></div>	<div></div>

Screen 2: Add course

Navbar	
<div>Domain name: <input type="text"/></div> <div>Course name: <input type="text"/></div> <div>Course image: <input type="text" value="Select"/></div> <div>Course Desc: <input type="text"/></div> <div>Duration : <input type="text"/></div> <div>Trainer : <input type="text"/></div> <div>Content : <input type="text" value="Select"/></div> <div><input type="button" value="Submit"/></div>	

DATA MODEL:



Technology:

Mobile apps :	CTL-Academy	
Frontend	Angular-7	UI
Middle Layer	Spring boot	Service
Database	MySQL.	Database