ICT Academy of Kerala
FSD Projects
Software Requirements Specification

1. ICTAK Learning Management System

Overview: ICTAK Learning Management System must enroll the students and enable them to watch and learn the learning materials and attempt the exams/assignments and feedbacks. This platform must enroll the trainers and enable them to create and evaluate the exams and analysis the feedback of students.

Requirements:
1. Sign Up and Login Modules for : Students,Trainers and Admin
2. Students and Trainers must be enrolled into LMS by Admin
3. Trainers must be able to upload the learning materials and setup exams
4. Students much be able to watch the learning materials (PDF/videos)
5. Students must be able to attempt the exams and submit feedbacks
6. Trainers must be able evaluate the submissions and analysis the feedbacks
7. Admin must be able to perform the CRUD operations on students and trainers

2. ICTAK ID App Generator

Overview: Create a responsive website for ID Generation using MERN Stack.

Requirements:
1. User Types : 3
    a. Students (apply for id)
    b. Batch Managers (control applications)
    c. Admin (control batch managers)
2. Pages Required:
    a. For All User
        i. Login page
        ii. Forgot password
    b. For Students
        i. Register Page for students only
        ii. Home Page with the navbar: Home, Apply, Application Status, Sign-out
        iii. Application page with form inputs as
            1. Name
            2. Course type (dropDown list)

3. Photo upload
4. Email
5. Phone
6. Batch
7. Course Starting date
8. Course Ending Date

    iv. Application Status page that shows pending, approved, or rejected message as per course managers respond to the application

    v. If Approved, a button should be shown to download the electronically created ID (pdf)

c. For Batch managers

    i. Home Page with navbar Home, Pending applications, History, Sign-out

    ii. The pending Application page must contain a table of the list of pending applications (as per his/her authorized batch only) with approve, reject button. Upon response, the table row must fade out.

    iii. On approving the application, an ID card pdf must be generated automatically (preferably from the server) with the student input values.

    iv. History page must contain a list of applications responded. A button for downloading history details (in pdf/excel) within a calendar date window.

3. For Admin

a. Home Page with navbar Home, Batch managers, New Course managers, Form controls, Sign-out

b. The batch managers page must have a list of batch managers' details. On clicking a batch manager list row, a page containing individual batch manager's detail should pop up. That page must contain the batches he/she was authorized to

c. CRUD Operation (add/delete /edit batch coordinators)

d. Admin should be able to create a user id and password for the batch coordinators. Use Node mailer to automatically inform the batch coordinators about the id creation.

e. Form control page containing adding/editing/deleting course lists in student application input fields

f. A new batch manager page to create new managers.

3. ICTAK Student Enrollment System

Overview: ICTAK Student Enrollment System should enable the participants to enroll in their preferred course and thereby automatically generate the student profile.

Requirements:
1. Pages Required:
   a. Home Page
   b. ICTAK Enrollment Form
   c. Student Profile
   d. Admin Search Page (Filter & Report Generation)
2. SignUp and Login Modules for Students, ICTAK Employers, Admin
3. Students can add, submit, view & edit their personal details - Enrollment Form:
   a. Name
   b. Email
   c. Phone
   d. Address
   e. Highest Qualification
   f. Pass out Year
   g. Skill Set
   h. Employment Status
   i. Technology Training
   j. Year
   k. Course
   l. Photo
   m. Fees (auto) + payment gateway
   n. ID(auto)

   This form needs to be sent to the Admin for approval. Once after the approval admin can send an Email notification to participants with fee details & ID and thereby automatic creation of student profile.

4. ICTAK Employers can search for specific participants based on search criteria:
   a. Qualification
   b. Pass out year
   c. ICTAK Course
   d. Place
   e. Exit Exam Mark
   f. Employment Status
5. Admin should have the overall control over the website with CRUD operations on Students & ICTAK Employers.

4. *ICTAK Trainer Management System*

Overview: ICTAK Trainer Management System should enable the trainers to enroll in ICTAK Portal and thereby automatically generate the trainer profile. The Admin should be allowed to allocate the trainer to different courses and thereby block their calendars.

Requirements:
1. Pages Required:
    a. Home
    b. ICTAK Enrollment Form
    c. Trainer Profile
    d. Admin Allocation Form with Search/Filter Options
2. SignUp and Login Modules for Trainers & Admin.
3. Trainers can add, submit, view & edit their personal details - Enrollment Form:
    a. Name
    b. Email
    c. Phone
    d. Address
    e. Highest Qualification
    f. Skill Set
    g. Current Company Name
    h. Current Designation
    i. ICTAK Courses Handling (Dropdown)
    j. Photo
    k. ID (auto)

    This form needs to be sent to the Admin for approval. Once after the approval admin can assign the trainer with their type of employment- Internal, Empanelled, Industry Expert. Thereby admin can send an Email notification to trainers with ID & Type of Employment and the automatic generation of Trainer Profile.

4. Admin can search for specific trainers based on search criteria:
    a. Name
    b. Skill Set
    c. Type of Trainer
    d. ICTAK Courses
5. Admin should be able to allocate the trainers with the following details:
    a. Start Date
    b. End Date
    c. Time
    d. Course Name

e. Course ID - 01_DSA, 02_FSD, 03_RPA
f. Batch ID - DSA001, DSA002, FSD001
g. Meeting Link/Venue
h. Schedule - File Upload *
i. Send an Email notification to Trainer

6. Once the trainer is allocated with any course their calendar needs to be blocked within the system to avoid conflicts.
   * - Optional

5. ICTAK Hall Booking Portal

Overview: Create an Online Hall Booking Portal for ICTAK where associates can book a conference room prior to their meeting on a particular day and time.

Requirements:
1. Associates Pages Required:
   a. Login
   b. Home Page
   c. Booking Calendar
2. Admin Dashboard
   a. Associates registration
   b. Log of Booking details
3. Associate logging into the portal must be displayed with the Home Page with their current bookings for 1 week
4. Booking Calendar should show the current month with booking details and associate can navigate to previous and next month along with the booking details
5. The associate should be able to book only for the next 15 days and the rest should be restricted
6. Booking details
   a. ICTAK ID
   b. Associate Name
   c. Hall Name
   d. Date
   e. Time Duration
7. An associate should be able to cancel/delete their own booking
8. Once booked, it should be blocked under the associate name with the hall, date&time
9. Admin should have the overall control over the website with CRUD operations on Associate and Booking

6. Digital Resume Builder :

Overview: A web app where users can add their details and download their digital resume and share it among their employers as a link / can download as a file.

Requirements:
1. SignUp and Login Module for Admin, End Users.
2. Users can add and save and can edit their personal details
3. Users should be able to download their Resume in different formats [Min 3 different designs].
4. Users should be able to customize details in their Resume.
5. Users should also be able to create a weblink for their resumes.
6. Users can also add their personal introduction video and create a digital resume with Video *
   * - Optional

7. ICTAK Alumni Job Portal

Overview: Create a Job Portal for ICTAK Alumni.

Requirements:
1. Sign Up and Login Modules for Alumni, Faculty, Employers, Admin.
2. Admins, Faculties, and Employers can create a job posting.
3. All Visitors of the web app can see Posting and Only registered Alumni can respond to Job Posting
4. Response to a Job Posting is a submission of a PDF file or Online Link.
5. A Job Posting Must have a Cut-off date and the response button should be automatically disabled after the cut-off time and date.
6. Admins can verify the submissions to a post and forward it to the Employer / Post Owner.

8. ICTAK Tech Blog

Overview: A blog Web Application for ICTAK students.

Requirements:
1. Sign Up and Login Modules for : Students,Trainers and Admin.
2. Users and Trainers can create Blog Post and send to admins for Approval
3. Admins can Approve Blogs and then make it available to the Home page.
4. Admins can add categories to each Post.
5. In the home page Posts can be sorted category wise.

6. Add comment and Like Option to Registered Users*

   * - Optional