

American International University, Bangladesh



23-52154-2@student.aiub.edu

23-52154-2@student.aiub.edu

Course: Web Technologies

Title: Advance Resume Management system

Section: N

Submitted To: Md. Khairul Alam Mazumder

Objective: The primary objective of the Advance Resume Management System (ARMS) is to create a comprehensive web-based platform that simplifies resume and CV creation, management, and recruitment processes for candidates, HR managers, and administrators. By providing uniform, professional resume templates and automated parsing tools, the system addresses the challenges faced by students and job seekers in designing effective resumes. It enables secure user registration, profile building with detailed personal and professional information, job circular creation, one-click applications, and admin oversight, all while ensuring data privacy and scalability.

Key goals include:

- Streamlining resume design for public university students who lack access to premium tools.
- Facilitating efficient matching between candidates and job opportunities through searchable profiles and notifications.
- Supporting multi-user roles (Admin, Candidate, HR Manager) with role-based access control.
- Integrating features like resume/CV upload, viewing, and uniform template generation to reduce design inconsistencies.

Feature:

1. User Registration and Authentication:

Candidates and HR Managers register with user_id, name, phone_number, email_address, and password. Secure login required for all actions.

2. Candidate Profile Management: Build detailed profiles including photo, additional_phone_number, course_curriculum, result, present_address, permanent_address, father's_name/occupation, mother's_name/occupation, about_me, educational_institutions (with exams, group, result), job_experiences, project_developed (title, details, link), skills, external links (e-portfolio, GitHub, Facebook, LinkedIn), and document uploads (marksheets, custom resume/CV).

3. Uniform Resume/CV Builder and Viewer: Pre-built uniform templates for easy design; auto-generate and view resumes/CVs in professional formats.

4. HR Manager Profile and Job Circulars: Similar profile fields plus company_logo, company_title, description. Create job circulars with job_title, description, closing_date, salary_offered, location, contact.

5. Application and Matching: Candidates drop one-click requests on circulars. HR Managers view only dropped profiles and send accept/reject notifications.

6. Admin Controls: View/delete any user profiles or circulars; send system-wide notifications.

System Architecture:

Frontend: HTML, CSS, JAVA SCRIPT

Form-Validation: JAVA SCRIPT, PHP

Backend: PHP

Server-Environment: Xampp

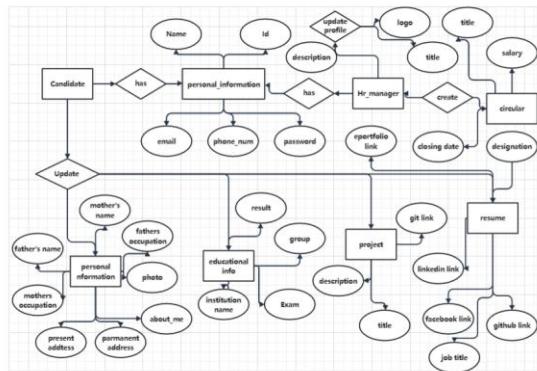
Query Language: My sql for xampp

Logic: JAVA SCRIPT and PHP

Use Case: There are 3 users. Admin, candidate, hr_manager. Candidate and hr_manager can register and login. Candidate is identified with user_id, name, phone_number, email_address. To log in password is

a must. Candidates need to share personal information like photo, additional phone_number, course_curriculum, result, present_address, permanent_address, father's_name, occupation, mother's_name, occupation, about_me, educational_institutions, exams, group, result, job_experiences, project_developed, details, link, title, and skills, external link of e-portfolio, GitHub, facebook, linked in, marksheets, there to prepare their profile, educational details cv view and resume view. Candidate can add their own resume and cv with their profile. Hr_manager can create profiles with the same information. Later they need to add the logo of company, company_title, description to prepare their profile. Hr_manager can create circulars and enlist them with job_title, description, closing_date, salary_offered, location, and contact. Candidate can drop request on one click. Hr_manager can view only the profiles dropped by the candidate and notify them with accepted or rejected notification. Admin can view any_users profile, delete user, delete circular, and notify users with notification.

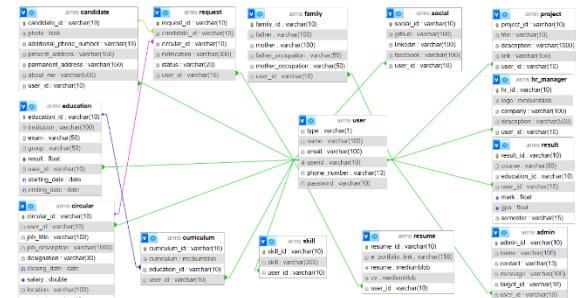
ER Diagram:



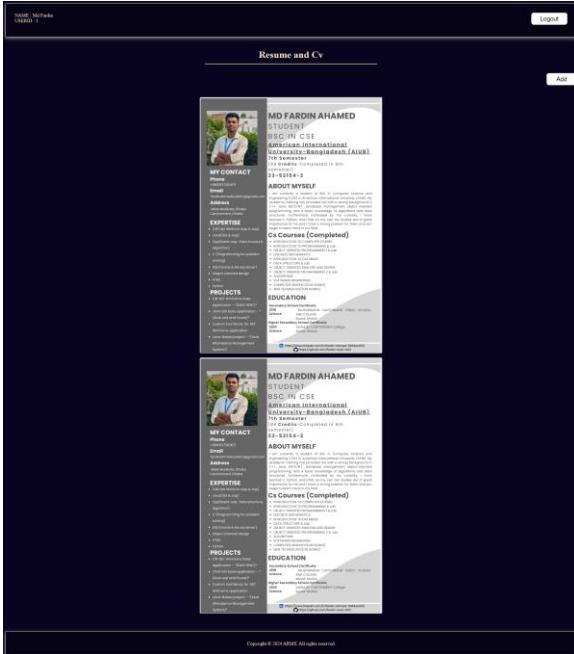
Sample Table Design

Table Name	Attributes	Relation With
User	type, email, name, user_id, phone_number, password	
Candidate	candidate_id, photo, additional_phone_number, present_address, permanent_address, about_me, user_id	User_id
education	education_id, institution, exam, group, User_id	result,user_id,starting_date,ending_date
Resume	eportfolio_link, resume, cv , user_id, resume_id	User_id
Result	result_id, course, education_id, user_id, mark, gpa, semester	Education_id, user_id
Family	family_id, father_name, father_occupation, mother_name, mother_occupation, User_id	
Projects	project_id, title, description, link,user_id	User_id
social	social_id, github, linkedin, facebook, user_id	user_id
Skill	skill_id, skill_name, user_id	user_id
HRManager	hr_id, logo, company_title, company_description, user_id	
circular	circular_id, job_title, description, designation, closing_date, salary, location, contact_info, user_id	
request	request_id, candidate_id, circular_id, user_id	notification_messag, user_id, status
Admin	admin_id, target_user_id, action_type, message	user_id
Curriculum	Education_id, curriculum_id, curriculum, user_id	Education_id

Database Schema:



Screenshots:



Candidate Summary

Basic Info

User ID:	4
Present Address:	401, MARCHWOOD, CHAMANJAHAN, DHAKA
Permanent Address:	401A, MARCHWOOD, CHAMANJAHAN, DHAKA

About Me

MD FARDIN AHAMED is a dedicated and detail-oriented Computer Science student at AIUB, with a strong foundation in PFBM/CSE. He has excellent problem-solving skills, including visual representation, and tracking efficient systems. Known for his creative problem-solving and persistence, he excels in areas such as algorithms, data structures, and machine learning.

Education

Institute	Degree	Year	GPA	Status
Islamia Government High School And College	Junior School Certificate	2008	4	Completed
Islamia Government High School And College	Secondary School Certificate	2010	5	Completed
Alamganj Government College	Higher Secondary Certificate	2012	5	Completed

Family Info

Family Size: 5, Family Income: 10000, Family Status: Married, Father: Md. Fardin Ahmed, Mother: Md. Fardin Ahmed

Projects

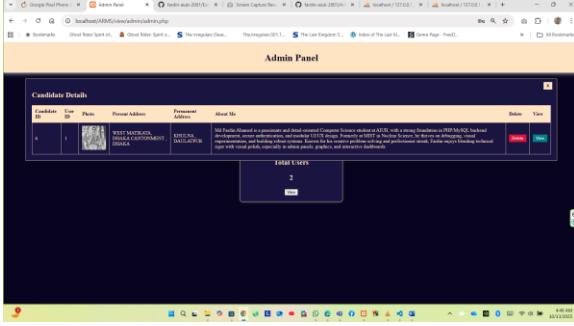
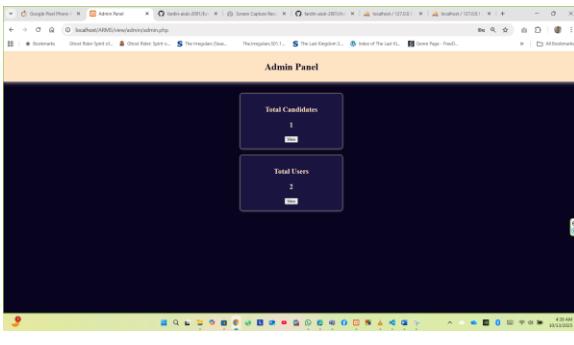
Title	Description	Link
AIUB HRMS Management System - ARMS	A web-based application for managing HR data.	Not Yet Published
Cloud Project	A cloud-based project management tool.	Not Yet Published

Resume

Download Resume

Results

Course	Credit	Grade	Semester	Year
Not Yet Published				



Conclusion: The Advance Resume Management System (ARMS) successfully delivers a user-centric solution for resume management, particularly addressing the design challenges faced by public university students through uniform templates and intuitive profile building. By integrating secure authentication, role-based features, and efficient matching, it enhances the recruitment ecosystem in Bangladesh. The project demonstrates proficiency in full-stack web technologies, from React.js frontend to MongoDB backend, and paves the way for real-world impact. Limitations include dependency on user-input accuracy for parsing; future work could add AI-driven content suggestions and mobile optimization.

Contribution:

23-52154-2: The popup window, Login, registration window and logic, candidate interface, admin's view button and candidate summary page. Designed the ER diagram, use case. Handles the backend logic and frontend for the candidate dashboard and developed the features that a candidate will enjoy.

23-52145-2: Organizing document in model view and controller. Designed The Welcome page, admin interface, distributed the common interface between the pages. Created the tables on XAMPP mysql server. Designed the ER diagram, use case.

Git Hub Link: <https://github.com/fardin-aiub-2001/Advance-Resume-Management-System--ARMS>