

Cairo University

Faculty of Computers and Artificial Intelligence



Introduction to Software Engineering

Project Description

2023-2024

Introduction

- In this project you will collect the requirements and formally specify them, provide the software design and define test cases for the described system. In which you will practice the concepts you learned during the course.
- The project is divided to three phases:
 - Phase 1: Elicitation and Analysis of the requirements, Use case diagram, Use cases, Sequence diagram.
 - Phase 2: UML Design of the proposed system (refined based on analysis), identify clearly your architecture and mention architecture style(s) you use.
 - Phase 3: Refined class diagrams, partial implementation, and accompanying test cases.
- Your project customer (whom you can check requirements with) and coach is your TA.

Project Logistics

- 1- Students from the **same lab** will be divided into groups; each group is 4 or 5 members.
 - 2- Your team will register their names with the TA and **you CANNOT change teams** after registration.
 - 3- Academic honesty is assumed. All work submitted must be original and written by your team (Not copied from students, the net, outside sources). Plagiarism will be penalized.
 - Soon, you will be our colleague and we will be proud of you.
 - Professional conduct and practice is essential in your career.
- **The delivery of each phase is a formal document of your findings and results. (SRS template and design template provided from your TA)**
 - **On Phase 2 you are required to deliver the final version for your SRS document**

Project description

Online Job Recruitment

You are requested to design and develop a "Online Job Recruitment" application. The application should allow job seekers to navigate the dynamic landscape of employment opportunities. The system should be a user-friendly system aims to streamline the job search process, providing a comprehensive solution for both applicants and employers. For job seekers the application should offer intuitive user authentication, allowing users to create and manage a personalized profile that highlights his skills, experiences, and aspirations.

The user should be provided a seamless experience in exploring diverse job listings, categorized by industries, positions, and locations. Each job listing should present detailed information, including company profiles, job descriptions, and application instructions. The system should empower users to apply to multiple positions effortlessly, and once submitted, a feedback on the status of the application is provided from the recruiter, ensuring transparency and reducing uncertainties.

The platform's advanced search and filtering functionalities will be essential in refining job searches based on specific criteria such as job type, salary range, and required skills. Users would value features that notify them of relevant job openings, ensuring they stay informed about opportunities aligning with their career goals.

The application should be integrated with a messaging system, enabling direct communication between employers and applicants. This facilitates clarifications, interview scheduling, and overall engagement throughout the recruitment process.

For employers, the platform should offer a straightforward recruitment process, allowing them to create and manage job postings, review applicant profiles, and communicate seamlessly with potential candidates.

To enhance accessibility, a mobile-responsive design should be supported, enabling users to engage with the platform on various devices. A dedicated mobile application would be particularly beneficial, allowing users to stay connected to job opportunities while on the move.

Policy Regarding Plagiarism:

Students have collective ownership and responsibility of their project. Any violation of academic honesty will have severe consequences and punishment for ALL team members.

1. تشجع الكلية على مناقشة الأفكار و تبادل المعلومات و مناقشات الطلاب حيث يعتبر هذا جوهرية لعملية تعليمية سليمة
2. ساعد زملاءك على قدر ما تستطيع لكن تبادل الحلول غير مقبول و يعتبر غشا.
3. أى حل يتشابه مع أى حل آخر بدرجة تقطع بأنهما منقولان من نفس المصدر سيعتبر أن صاحبيهما قد قاما بالغش.
4. قد توجد على النت برامج مشابهة لما نكتبه هنا أى نسخ من على النت يعتبر غشا يحاسب عليه صاحبه.
5. إذا لم تكن متأكدا أن فعلا ما يعد غشا فلتسأل المعيد أو أستاذ المادة.
6. فى حالة ثبوت الغش سيأخذ الطالب على صفر بدون الالتفات الى أى اسباب او نقاشات ، و فى حالة تكرار الغش سيرسب الطالب فى المقرر.