CRISP.NZ

for

Cloud Computing (INFS 803)

by

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# Introduction

CRISP offers a comprehensive solution designed to empower both job seekers and recruiters. For job seekers, CRISP provides an intuitive platform to craft personalized profiles, complemented by the ability to upload introductory videos and traditional CVs. This multimedia approach transcends the confines of conventional resumes, compelling candidates to showcase their skills, experiences, and personality.

On the recruiter's front, CRISP equips hiring professionals with tools to effortlessly post job listings, rate, and engage with candidates. Furthermore, CRISP facilitates seamless communication channels, fostering meaningful interactions between recruiters and candidates throughout the recruitment journey.

# Proposed Methodology

# The paper delves into integrating cloud technologies, including Amazon Web Services (AWS) offerings such as AWS Cognito, S3, Route 53, Lambda, RDS (MySQL), GraphQL, and Amplify, within the traditional three-tier architecture model in software development. By leveraging these AWS services, we aim to optimize the cost, scalability, flexibility, and efficiency of software deployment and management. AWS Cognito is used for user authentication and authorisation, S3 provides scalable object storage, Route 53 offers scalable domain name system (DNS) web service, Lambda enables serverless computing, RDS (MySQL) delivers managed relational databases, GraphQL facilitates efficient data querying, and Amplify streamlines the development and deployment of cloud-based applications. Through a comprehensive examination of how these AWS services can be integrated into each tier of the architecture, our research seeks to propose innovative approaches for deploying, scaling, and maintaining applications.

# Project Management

Using Scrum as the project delivery mechanism, CRISP provides a structured and iterative approach to software development, aligning seamlessly with the dynamic nature of cloud technologies and the evolving needs of stakeholders. By adopting Agile Scrum, the project team can break down the development process into smaller, manageable tasks or user stories, which are then organized into sprints, typically lasting one week.

# Expected Outcomes The anticipated outcome is a highly scalable, resilient, and cost-effective web-based recruitment platform. Through the integration of specified cloud services, this platform will establish a robust infrastructure capable of handling varying workloads seamlessly.

# Team Members and Responsibilities

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| Team Member | Contributions and Responsibilities |
| Juan Herbst |  |
| Mike Chene |  |
| Tommaso Cammelli |  |