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| **TEAM ID:** CSE02  **PS ID:** SIH1653  **PROJECT CATEGORY:** SOFTWARE  **PROJECT TITLE:** Web based Selector-Applicant Simulation Software  **DEPARTMENT:** COMPUTERSCIENCE AND ENGINEERING | **TEAM LEADER :** NIDHARSAN V(22CSR130)  **TEAM MEMBERS:**  MUGESH S(22CSR123)  NIKIL HARI R(22CSR132)  PRASANNA S(22CSR150)  RAGULANDIRAN M(22CSR157)  SOWMIYA S(21CSR198)    **MENTOR:** DR.S.MALLIGA (HOD - CSE DEPT) |
| **ABSTRACT**  **Problem:** Our problem statement involves creating an interview web simulation software for DRDO’s RAC. The goal is to design a solution that ensures an unbiased, objective interviewing process to identify the right talent. A typical interview process includes posing a set of questions by an interviewer and evaluating the responses from candidates. Therefore, the questions asked should be relevant and aligned with the applicant's area of expertise, and the responses should also be pertinent to the questions asked. Finally, the system should assist in arriving at an overall score for the candidate's subject knowledge and determine their suitability for the advertised post.  **Solution:** We have developed a solution to address the problem statement. The first step involves a Resume Analyzer, which fetches the resume from the candidate and retrieves the matched skills and domains relevant to the particular job. These domains and skills are then passed to the Easy Phase, where each skill is assessed individually. For example, if the skill is React, a model fetches the context related to that particular domain, generates easy questions, provides answers through another model, and evaluates the responses. If the candidate crosses the threshold value, they progress to the Difficulty Phase, where follow-up questions are posed to create a Board Room experience. After evaluating the Difficulty Phase, a report is generated that outlines the candidate's skills along with their evaluation marks, with the final output being the knowledge percentage in each skill.  **Background Process:** Data warehousing is used to collect, store, and regularly update the contexts that feed the question-and-answer model. Data collection will involve web scraping to ensure that the information is current and relevant.  **Evaluation:** The evaluation process occurs in two steps. First, the model is evaluated. If the evaluation score is below a threshold value, web scraping is used to obtain the correct answer to the question. If the answer retrieved through web scraping is correct, the question-and-answer pairs are stored in the data warehouse as well as the Answering LLM model. | |