

# Implementation of an End-to-End Training and Placement Portal for Higher Education Institutions

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**Abstract:** *This research presents the development of an End-to-End Training and Placement Portal (TNP Portal) designed to streamline the training and placement process for students and educational institutions. Developed by HarIT Tech Solution, the portal enables students, academic institutions, and recruiters to interact seamlessly through features like student registration, skill assessments, internship management, job postings, resume building, and interview scheduling. The system uses Spring Boot REST APIs for backend development and React with Tailwind CSS for the frontend, offering an intuitive user interface and real-time data analytics. The portal's customized skill assessments help recruiters identify suitable candidates, while automated features like interview scheduling and document management ensure smooth placement operations. The research also discusses the platform's security and privacy measures, focusing on data encryption and authentication protocols. Empirical data from real-world implementations demonstrate the portal's impact on improving placement rates and student engagement. In conclusion, the End-to-End Training and Placement Portal offers a transformative solution for higher education institutions, enhancing placement efficiency and empowering students with greater career opportunities, while also providing valuable insights for recruiters and institutions.*

**Keywords:** Training and Placement, Higher Education, Job Placement, Spring Boot, React, Skill Assessment, Internship Management, Career Counselling, Education Technology, Data Analytics

