



# BANNARI AMMAN INSTITUTE OF TECHNOLOGY

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## STUDENT RANKING DASHBOARD

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## PROBLEM STATEMENT

Educational institutions face challenges in effectively tracking and analysing student performance across various metrics. Traditional methods of ranking students based on test scores can be cumbersome and time consuming, often lacking real-time updates and comprehensive analysis. There is a need for an intuitive and dynamic student ranking dashboard that integrates multiple data sources to provide accurate, up-to-date rankings and insights. This tool should allow educators to easily identify top performers, at risk students and overall performance trends, thereby facilitating targeted interventions and promoting a more personalized educational experience.

## PROJECT FLOW

### Purpose

To reduce the time and effort required for manual data entry and analysis, simplifying the generation of reports and visualizations. Offering actionable insights and feedback mechanisms to continuously improve educational practices and the dashboard itself.

## Scope

Student ranking dashboard encompasses several key areas to ensure a comprehensive and effective tool for educational institutions. This include data integration and management where data sources such as personalized skill assessment, full stack marks, extra placement activities are aggregated to provide holistic view of student performance.

## Business Context

It streamlines administrative tasks, supports targeted interventions, and enhances stakeholder communication, thereby promoting a more personalized and effective educational environment. It enhances educational efficiency by providing real-time performance analytics.

## User Personas

- **Student:** They can know their rank based on the personalized skill, full stack assessment and other placement activities
- **Admin:** Able to upload and export excel sheets, sort and filter the top performing students.
- **Faculty:** They can provide assessment marks based on the student's performance.

## Dependencies

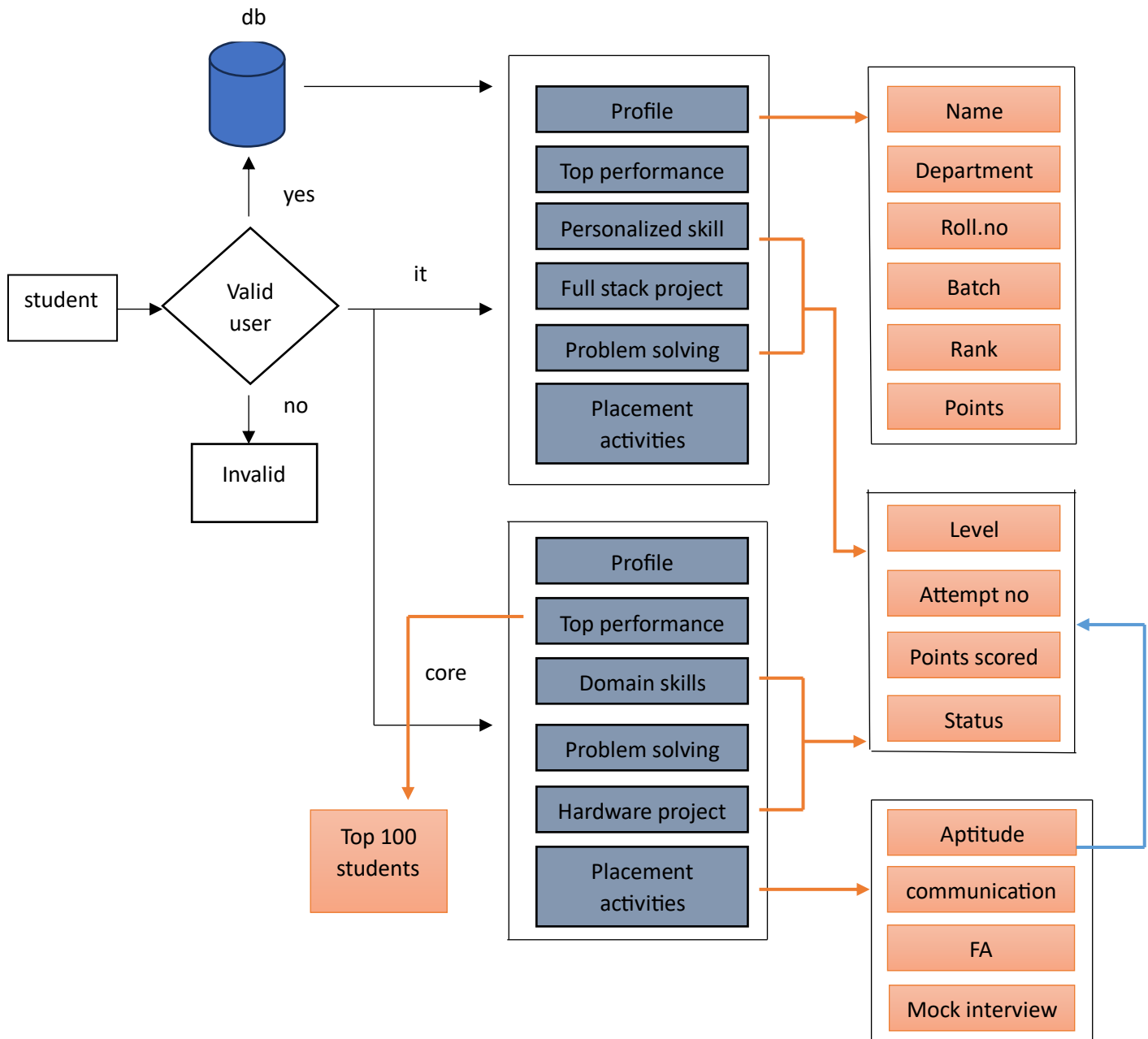
- Access to data sources such as personalized skill assessments, full stack assessments and other placement activities
- Systems for user authentication to ensure access to the dashboard.

## Functional requirements

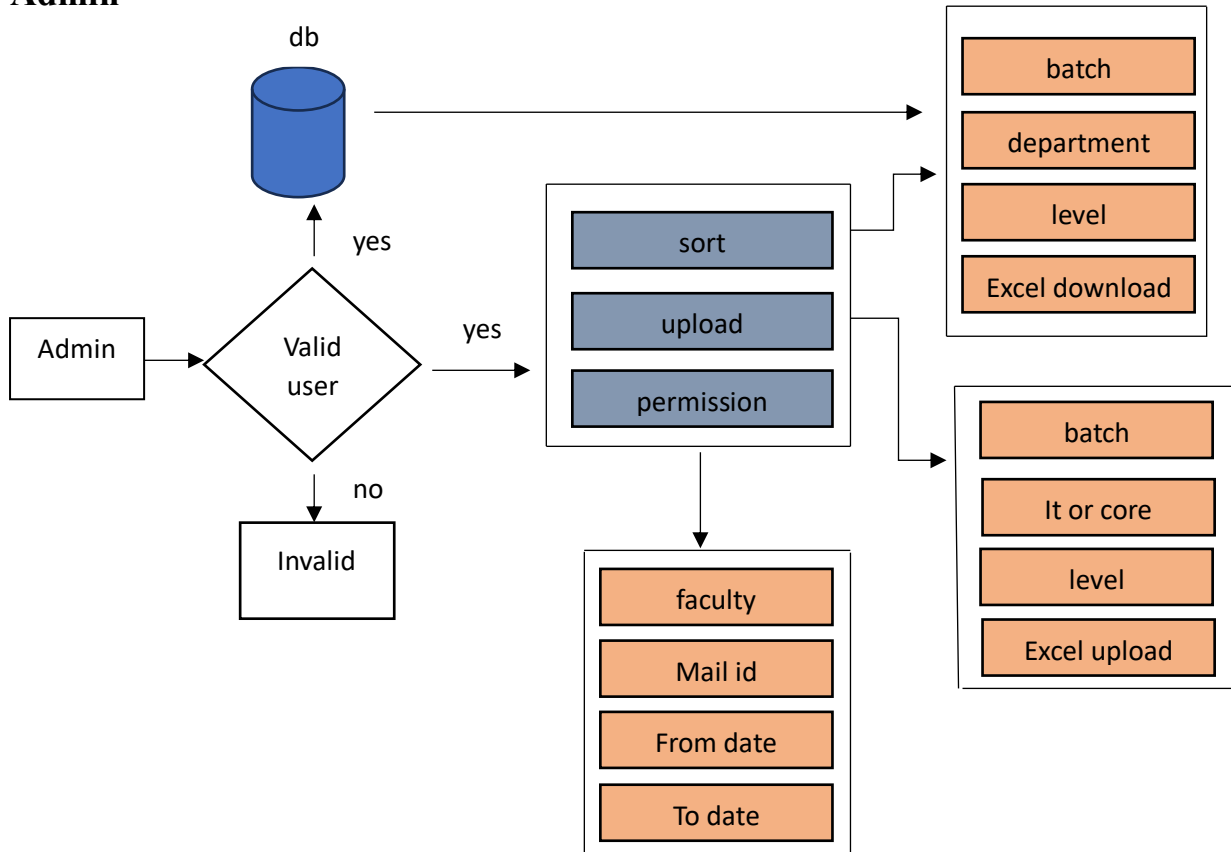
- **Data integration and real time updates:** Aggregate data from the excel sheet and ensure data accuracy and provide real time updates to reflect the latest student performance information.
- **User interface and customization:** Allow customizable dashboard views tailored to different user admin, student and faculty.
- **Analytica and insights:** To rank students based on the points gained by the assessment.
- **Security and compliance:** Implement secure user authentication and role-based access control to manage permissions.
- **Reporting and integration:** Allow users to generate and customize reports and enable data export in excel format.

## FLOW CHART

### Student:



## Admin



## Faculty

