# Project Design

**Brand Name:** UniRank

## MISSION:

Empowering UMD Smith School stakeholders with comprehensive, accurate, and easily accessible program ranking data. UniRank's mission is to develop a cutting-edge information system that integrates data from multiple sources, spanning multiple years, to provide valuable insights and support data-driven decision-making within the UMD Smith School programs.

## MISSION OBJECTIVE:

UniRank's primary objective is to find:

1. What are the UMD Smith School program rankings for the past five years?
2. Which data sources have been used to compile the program rankings?
3. What is the ranking trend for specific programs over the years? Are they improving or declining?
4. Who are the top-ranking competitors in the same category as the UMD Smith School programs?
5. How do different data sources weigh and evaluate the programs? What criteria do they use?

## Business Terms:

**Program Rankings:** Program rankings are assessments of the quality and performance of the various academic programs or courses offered by an institution. These rankings are typically based on various criteria and data

**Data Sources:** The various organizations or publications that provide program ranking data, such as Forbes, U.S. News & World Report, or The Wall Street Journal.

**Ranking Criteria:** The specific factors or metrics used to assess and rank programs, such as faculty credentials, student satisfaction, or job placement rates

**Historical Rankings Trends:** The past years' ranking data, enabling trend analysis and historical comparison of program performance.

**Competitive Benchmarking:** Comparing UMD Smith School program rankings to those of peer institutions or competitors.

**Stakeholders:** Individuals, departments, or groups within the UMD Smith School who rely on ranking data for decision-making.

## Facts:

UMD Smith School Rank

Historical Rank

Top Business Schools

## Attributes:

1. Program Name
2. Rank
3. Rank Year
4. Program duration
5. Data Source
6. Employability Rate
7. Location
8. Fees
9. Intake
10. Diversity
11. Alumni Network
12. Average Starting Salary
13. ROI

## Identifiers:

1. Program ID
2. Rank ID
3. Rank Source ID
4. User ID

## Entities:

**Program:** This entity represents UMD Smith School programs, including their names, program IDs, and specific details like tuition fees,program duration,employability rate, alumni network,Etc.

**Rank:** This entity stores ranking data, including the rank ID, program ID, ranking source, ranking year, and the specific criteria used for ranking, along with the associated ranking scores.

**RankSource:** This entity contains information about the publications or organizations that provide ranking data. It includes details like rank source ID, source names, methodologies, and contact information.

**User:** This entity captures data related to user details like User ID, name, mail id, Student category(Post graduate/ Undergraduate)

## ER Schema:

Program(**programId**,programName,location,tutionFee,programDuration,employabilityRate,alumniNetwork)

Rank(**rankId**,rankingSource,rank,rankingYear,rankingCriteria)

RankSource(**rankSourceId**,sourceName,sourceLink)

User(**userId,**userName,mailId,userCategory)

**Relationships:**

**Holds: binary relationship**

1 Program to 1 or many Ranking

1 Rank to 1 Program

**Publish: binary relationship**

1 Rank to 1 RankSource

1 RankSource to 1 or many Rank

**Visits : binary relationship**

1 User to 1 or many RankSource

1 RankSource to zero or many User

**Ranks : binary relationship**

1 Program to 0 or many RankSource

1 RankSource to 1 or many Program

## ER diagram:



**Program**
- **programId**
- programName
- location
- tutionFee
- employabilityRate
- alumniNetwork
- programDuration

**Rank**
- **rankId**
- rankingSource
- rankingYear
- rankingCriteria

**RankSource**
- **rankSourceId**
- sourceName
- sourceLink

**User**
- **userId**
- userName
- mailId
- userCategory

Holds

Ranks

Publish

Visits