

# Database Management Systems

## Mini-Project

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### Abstract

Observing the Latest advancements In the commercial spaceflight, **SpaceX** has travelled a long way through the line to be the first to get certified by **NASA** for statistically being the safest option to deliver a payload and Crew to the International Space Station. It is indeed intriguing to look through the timeline of SpaceX from the inception to the anticipation for future Launches. This Web Application administrates/simulates the **Database informatics**, holding the Historical data of SpaceX and also the information about any recent future launches.

# Database Hierarchy and Overview

## SpaceX Database System

### Tables /Entities

- Ships
- Rockets
- Launches
- Launchpads
- Payloads
- Administrators

## Use Cases

### **Scenario -- 1:**

A spaceX employee with admin credentials will be able to login to the site and has the eligibility of performing any of the **Data Manipulative Operations** on the database.

## **Scenario -- 2:**

A Normal User/SpaceX enthusiast, with normal login procedure ( Email input, to send him the notifications and schedules of any future launches). After the login he/she gets access to all the catalogues available, Information about the past launches like launchpad, launch vehicle used, payload delivered, Orbit level status, and overall launch status and also a Statistical analysis of the SpaceX over the time.