Project Introduction Team:

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2. Abstract

In this paper present developing an application in Python, MySQL and Django running on Google App Engine (GAE). Django is an open-source framework that is designed on top of Python and supports data-driven architecture. The intent is to take advantage of Django’s rapid development and security features to quickly implement the UB Reservation System.

1. Problem Statement

The UB Room Reservation System aims to enable users to easily perform functions related to reserving a room as well as provide useful insights to the administrators, into the reservation process. Reservations are for facilities located on the University of Bridgeport’s campus which are comprised of Meeting Rooms, Study Rooms, Study Halls and Conference Rooms. Students, campus departments, and off-campus groups sponsoring nonprofit events can use the system. The system also allows reservations to be created for Audio / Visual Equipment and Special Events Planning.

At present, there is not an easy way to view insights from data and processes within the system which could be used to make the reservation system more economically manageable and provide increased user satisfaction and usability. The approach that will be used to fulfill this goal, is to create a distributed application implemented in MySQL, Python and Django, using Google Cloud Computing.

1. Application Architecture
   1. Users
      1. Admin
      2. Normal
   2. Data Structures and Relationships
      1. Database
         1. Entities, Attributes, Relationships
            1. Entities
            2. Attributes
            3. Relationships
      2. Data Queries (English)
         * 1. Register To Use System
           2. Sign into System
           3. Reservation Functions

Reserve (Book) a Room

Modify Reservation

Cancel Reservation

View Reservations – Current /Past/Future

* 1. Environment
     1. Cloud Application
        1. Google Cloud App Engine
        2. MySQL
        3. Python
        4. Django

1. Conclusion