Ski-Bums

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Outline

The goal of this project is to web applications that allows users to search a database of ski resorts and view a list of suggested destinations based on their criteria. The complexity of the project is dynamic based due to the complexity of the preference algorithm and the output generated for the user.

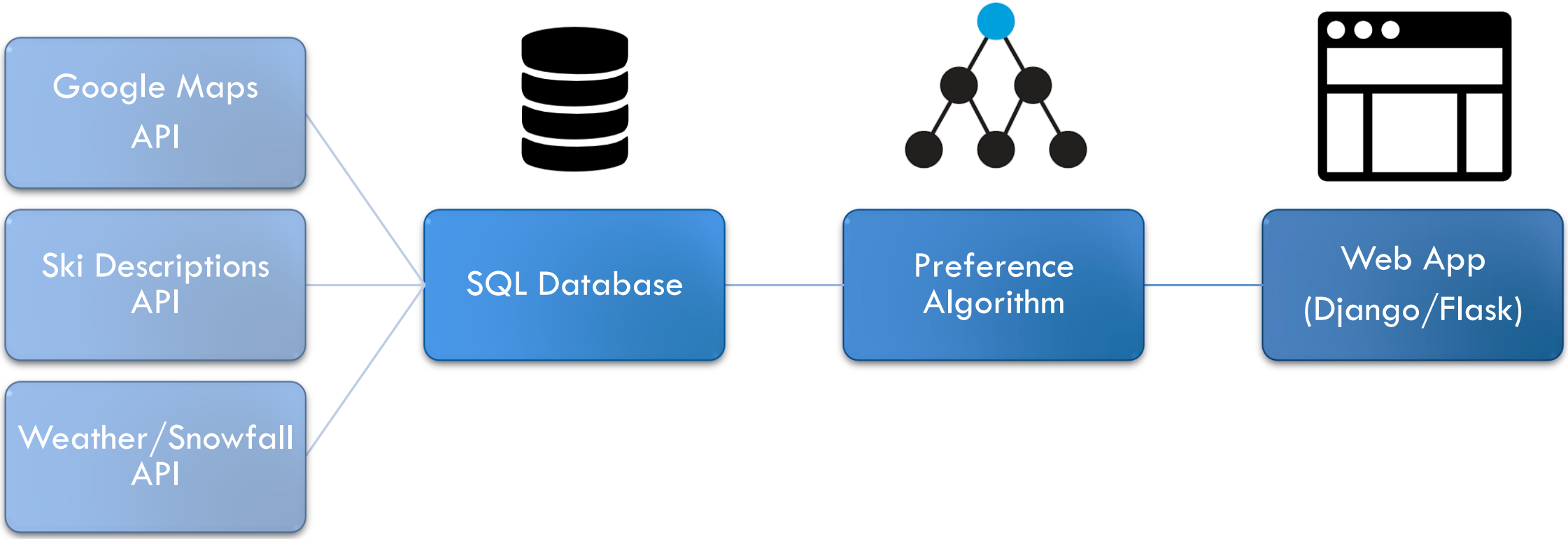
Example Input:

- Maximum Driving Time
- Minimum expected snowfall
- Minimum number of Runs

Example Output:

- Driving Time/Directions
- Trail Map
- Expected or Current Snowfall

Schematic


Google Maps API
Ski Descriptions API
Weather/Snowfall API
SQL Database
Preference Algorithm
Web App (Django/Flask)

Data/API

- **Weather API** (Number of Sources)
  - *Weather Reports*
  - *Expected Snowfall*
- **Google Maps API**
  - *Distance Matrix*
  - *Directions*
- **Resort Descriptions** (Number of Sources)
  - *Wikipedia*
  - *Sno-Country*
    - Includes Weather Data

Components

Gareth Jones	Syd Reynolds	Megan Wall	Alison Wall
Managing Database • SQL Database • Scrubbing or Enhancing as necessary	Django or Flask • Building the website • Determine how website with interact with database	APIs • Ski-Descriptions *Sno-Country* *Wikipedia* • Google Maps *Distance Matrix* *Route/Directions*	Preference Algorithm • *Search database for search terms* • *Rank output in a meaningful way*

Timeline

January 31st

Acquire Data

- Access Relevant Databases
- Determine whether enhancement or additional sources are needed

February 9th

Build Database

- Decide on Structure/Format
- Determine how to mesh with interface

February 23rd

Create Web Interface

- Decide on outputs
- Write algorithm to rank destinations based on user preference

March 13th

Submit Project