



SolSeekers

NASA Space Apps Challenge 2021: You Are My Sunshine

Team: Pratik M, Jamye P, Pratik G, Chris, Ravi

Challenge background

- The aim of the challenge is to develop a mobile application that displays solar data
- The world's reliance on renewable energy sources, such as solar energy are increasing due to dwindling fossil fuel reserves
- Traditionally, solar data is used by commercial user and large corporations
- Providing solar data in an accessible format to the general public will help promote use of solar energy in viable areas



SolSeeker

SolSeeker is a mobile application that display the solar irradiance levels at a location over a specified duration. The application provides solar data in an accessible mobile format to the general public using the NASA POWER API.

Location: Select the location by entering the coordinates (longitude and latitude)

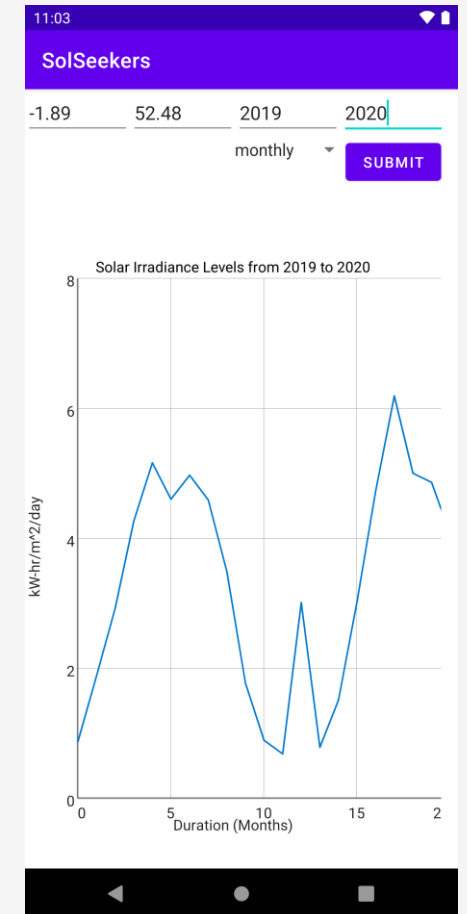
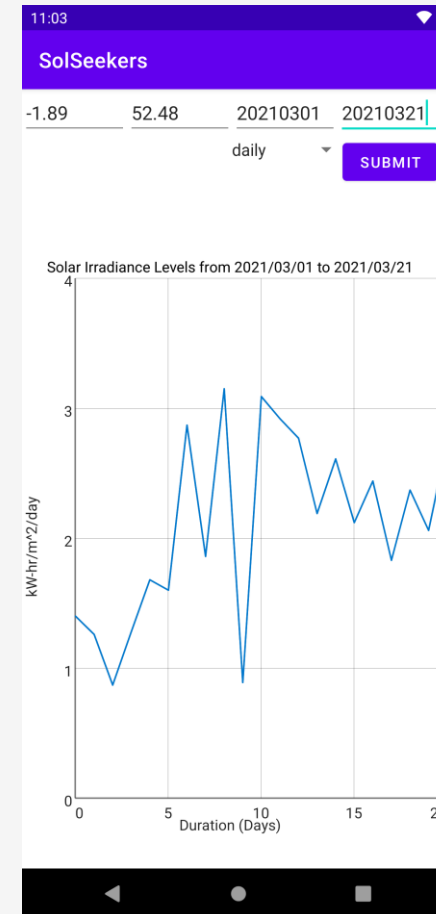
Duration: Select the duration by entering the start and end date

Duration increments: Select the duration increments using the dropdown arrow

Submit: Pressing the submit button will generate the graph

Graph: The graph displays the solar irradiance over the specified duration

(Application screen displayed on the right)



Next Steps

- Additional Solar data
- Enabling cross platform compatibility
- Enabling location selection via a map
- Incorporating a viability calculator based on the solar data

