Execution Plan for Landsat Project

1. Project Definition and Requirements Gathering (1-2 weeks)

- **Define Objectives**: Clearly outline the goals of the project, including functionality and user needs.
- **Gather Requirements**: Consult with potential users or stakeholders to understand their needs and expectations.
- **Create User Stories**: Develop user stories that describe the features from the user's perspective.

2. Technical Research and Planning (2 week)

- **Choose Technology Stack**: Finalize the frontend and backend technologies (e.g., React.js, mapping libraries, APIs for satellite data).
- **Design Architecture**: Plan the application architecture, including data flow, API endpoints, and database.
- **Identify API Sources**: Research available APIs for satellite tracking data.

3. Design Phase (3 weeks)

- **Wireframes and Prototyping**: Create wireframes for the UI and a prototype to visualize the application layout and user experience.
- **User Interface Design**: Design the UI components, ensuring they are responsive and user-friendly.

4. Development Phase (4-6weeks)

- **Frontend Development**:
    - Set up the React.js environment.
    - Implement the map interface with location input functionality.
    - Develop the user notification system.
- **Backend Development**:
    - Create API endpoints to handle location data and notifications.
    - Integrate satellite tracking API and ensure data is fetched and displayed accurately.
- **Database Setup** :
    - Design and implement a database to store user data.

5. Maintenance and Updates (Ongoing)

- **Bug Fixes and Improvements**: Address any bugs reported by users and implement improvements based on feedback.

- **Feature Updates**: Continuously evaluate the need for new features and enhancements to keep the application relevant and useful.
- **User Support**: Provide ongoing support to users, helping them navigate the application and resolve any issues.