**NSPC Project - Voters Data**

**1. Introduction**

**1.1 Title**

NSPC Project - Voters Data

**1.2 Summary**

The NSPC Project - Voters Data aims to facilitate analytics based on voter data. This project enables the extraction of data from PDF format, converts it into a user-readable format, and generates analytics for further insights. Future versions of the project will incorporate additional features and enhancements.

**2. Requirements**

**2.1 Software Requirements**

* **Python Version:** 3.10 and above
* **Libraries and Dependencies:**
  + pdf2image: 1.17.0
  + pandas: 2.2.3
  + numpy: 2.2.3
  + poppler: 24.08.0
  + Tesseract-OCR

**3. Features & Future Enhancements**

* Extract voter data from scanned PDFs using OCR.
* Convert extracted data into a structured, readable format.
* Generate analytics and insights based on voter data.
* Future versions may include additional data processing, visualization, and reporting capabilities.

**4. Installation & Setup**

1. **Install Python 3.10 or above**
2. **Install Required Dependencies:**
3. pip install pdf2image pandas numpy
4. **Install Poppler:**
   * Windows: Download from <https://github.com/oschwartz10612/poppler-windows>
   * Linux: sudo apt install poppler-utils
   * MacOS: brew install poppler
5. **Install Tesseract-OCR:**
   * Windows: Download from <https://github.com/UB-Mannheim/tesseract/wiki>
   * Linux: sudo apt install tesseract-ocr
   * MacOS: brew install tesseract

**5. Conclusion**

The NSPC Project - Voters Data is designed to streamline voter data extraction and analysis. By leveraging OCR and data processing tools, it provides a foundation for deeper analytics and reporting. Future updates will enhance its capabilities for broader applications.