# Define Problem/Problem Understanding



Business Requirements

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| Date | 09 October 2023 |
| Team ID | NM2023TMID05031 |
| Project Name | Solar Panel Forecasting |

# Business Requirements

**Business Requirements for Solar Panel Systems:**

1. **Energy Cost Reduction:** The primary business requirement is to reduce energy costs for businesses and homeowners by implementing solar panel systems. This includes lowering electricity bills and providing a reliable source of renewable energy.
2. **Environmental Impact Reduction:** Businesses and individuals seek to reduce their environmental impact by lowering greenhouse gas emissions associated with energy production. The system must contribute to a decrease in carbon footprint.
3. **Sustainability Goals:** The system should align with sustainability goals set by businesses and homeowners, which may include specific targets for the use of renewable energy sources.
4. **Market Competitiveness:** Companies aim to enhance their market competitiveness by demonstrating a commitment to clean energy and sustainability. The system must support these efforts by providing an eco-friendly image.
5. **Energy Independence:** Some stakeholders prioritize energy independence, and the system should enable them to generate a significant portion of their energy needs on-site.

**Business Requirements for Information and Promotion Services:**

1. **Accessible Information:** Information services should provide easily accessible details about government incentives, tax credits, and local regulations related to solar panel installations. These services should assist businesses and homeowners in making informed decisions.
2. **Educational Outreach:** The services should facilitate educational workshops, presentations, and the distribution of materials that inform the public about the benefits of solar energy and sustainability.

**Business Requirements for Innovative Solutions and Construction Services:**

1. **Aesthetically Pleasing Solutions:** Innovative solutions like solar roof tiles must be aesthetically pleasing and seamlessly integrated into the existing architecture or construction projects.
2. **Construction Integration:** Services should offer a streamlined process for integrating solar panels or solar roof tiles into construction projects, ensuring they align with the design and functionality of the structure.

**Business Requirements for Information Technology Solutions:**

1. **User-Friendly Platform:** The solar panel estimation platform should be user-friendly, allowing homeowners to input their property details easily and receive accurate estimates of energy savings and environmental impact.

**Business Requirements for Complex Feasibility Study Services:**

1. **Feasibility Analysis:** Services must support in-depth feasibility studies for large-scale solar projects like solar farms, including cost-benefit analyses, energy production projections, and environmental impact assessments.
2. **Financial Modeling:** The feasibility study services should include financial modeling tools for assessing the financial viability of solar farm projects, including ROI calculations and risk analysis.