

Project Design Phase-I
Proposed Solution Template

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| Date | 5 November 2022 |
| Team ID | PNT2022TMID13336 |
| Project Name | Estimate the crop yield using data analytics |
| Maximum Marks | 4 Marks |

Proposed Solution Template:

| S. No. | Parameter | Description |
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| 1. | Problem Statement (Problem to be solved) | This project deals with the estimation of the crop yield in India based on the area, season, state, etc.. |
| 2. | Idea / Solution description | The key research observations as follows: <ul style="list-style-type: none">□ The data's can be visualized using Cognos analytics in various methods. □Season with average production□ With year usage of area and production□ Top 10 states with most area□ State with crop production□ State with crop production along with season. |
| 3. | Novelty / Uniqueness | The uniqueness present in our project is we can easily identify the crop yield based on the seasonal changes and based on the area. Farmers can easily understand the crop sowing. |
| 4. | Social Impact / Customer Satisfaction | From the public perception as worst impacts of present data visualization system which does not gave any additional impacts and they have faced many losses. |
| 5. | Business Model (Revenue Model) | This project mainly helps for business two operations: <ul style="list-style-type: none">□ It helps farmers to understand easily so that, the organization will earn profit by getting more responses and feedback.□ We can digitally market because the bar, pie charts are easy to understand it reduces time for organization. |

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| 6. | Scalability of the Solution | We can estimate the crop yield by season, area, and yearly production. So, the farmers can easily predict the suitable crop. |