# SDLC: Planning

You have received the following email about a new software development project for a company called *Parkway Commute*:

11/04/22

*Kia ora,*

*Following on from our conversation the other day, we have a large data source from surveys of our employees describing their commuting habits to and from work. We want to use this data to help us with carbon reduction planning. We need a dashboard that will allow us to explore the data that we have collected and enable us to make planning decisions. We want to encourage our employees to reduce their carbon footprint by using single-car use alternatives such as cycling, walking, bus and so on.*

*We look forward to hearing your proposal.*

*Ngā Mihi,*

*Joe Bloggs*

*Parkway Commute*

*12/04/22*

*Kia Ora Joe,*

*Thanks for reaching out. I have a few questions based on what you’ve said, these are as follows:*

* *Could you send me a copy of some sample data?*
* *What information do you expect the dashboard to show?*
* *What types of planning decisions would you base on this?*

*Look forward to hearing from you.*

*Ngā Mihi,*

*Carlene Webb*

*Software Solutions LTD*

*13/04/22*

*Kia Ora Carlene,*

*Thanks, see my answers below.*

*Kia Ora Joe,*

*Thanks for reaching out. I have a few questions based on what you’ve said, these are as follows:*

* *Could you send me a copy of some sample data?*

*Yes, find sample data attached.*

* *What information do you expect the dashboard to show?*

*It would be good to see each individual’s carbon footprint, what area they are travelling from, as well as an overview of the company as a whole.*

* *What types of planning decisions would you base on this?*

*We plan to offer spot prizes etc. for those that reduce their carbon footprint, so we will continue our surveys over time. We also may offer minibus or van services from popular suburbs.*

*Look forward to hearing from you.*

*Ngā Mihi,*

*Carlene Webb*

*Software Solutions LTD*

Excerpt from attached file *employees.csv* file:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID** | **First Name** | **Last Name** | **Role** | **Home** | **Work** |
| 233 | Mary | Bennett | Secretary | 23 Cameron Road, Tauranga | 148 Durham Street, Tauranga |
| 453 | Jim | Carter | Engineer | 4 Dee Street, Mount Maunganui | 148 Durham Street, Tauranga |
| 675 | Richard | Walker | IT | 26 Tweed Street Mount Maunganui | 52 Miro Street, Mount Maunganui |
| … | | | | | |

Excerpt from attached file *commutes.csv* file:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **EmployeeID** | **Arrive By** | **Trip Time** | **Depart By** | **Trip Time** |
| 233 | 9:00am | 10 minutes | 5:30pm | 20 minutes |
| 453 | 8:00am | 45 minutes | 4:00pm | 50 minutes |
| 675 | 8:30am | 50 minutes | 5:00pm | 60 minutes |
| … | | | | |

Excerpt from attached file *travelModes.csv* file:

|  |  |  |
| --- | --- | --- |
| **EmployeeID** | **TravelMode** | **EmissionsType** |
| 233 | Car | Petrol |
| 453 | Car | Hybrid |
| 675 | Bus | Don’t know |
| … | | |

*14/04/22*

*Kia ora Joe,*

*Thanks for the information. In terms of Travel Modes and Emissions Types, what is the exhaustive list of options?*

*Ngā Mihi,*

*Carlene Webb*

*Software Solutions LTD*

*14/04/22*

*Thanks for your email. We don’t have any predefined categories but here’s what was included in the spreadsheet:*

* *Travel modes: car, bus, walk, bike, car pool*
* *Emissions types: Petrol, Diesel, Hybrid, Electric, None, Don’t know*

*Ngā Mihi,*

*Joe*

# Proposal

## What is the problem?

## Who is the company and what do they do?

## What is your proposed solution?

## What are the tangible and intangible benefits?