|  |  |
| --- | --- |
| **Organization:** The Food Bank Singapore Ltd  **Website:** [www.foodbank.sg](http://www.foodbank.sg)  **Facebook:** [www.facebook.com/thefoodbanksingapore](https://www.facebook.com/thefoodbanksingapore)  **Instagram:** [@foodbanksg](https://instagram.com/foodbanksg/) |  |
| **Mission** | | | |
| The Food Bank Singapore strives to bridge the gap in the food market by collecting surplus food and providing it to organisations and people in need of food. The Food Bank Singapore aims to be the prevailing centralised coordinating organisation for all food donations and play a key role in the reduction of food wastage within the whole supply chain. | | | |  |

|  |  |
| --- | --- |
| **Context** |  |
| A. Due to the logistical constraints, a request for collection of food donations is only accepted if it is a large amount (e.g. Industry donors or Schools / Corporates hosting a food drive). For individual donors, they are directed to Food Bank boxes located in shopping malls as collection points.  B. The rate at which food rations are then delivered is in cycles of 2-3 weeks after stock taking and allocation to beneficiaries. During this time period, the Food Bank is unable to reach out to feed the needy and some food donations may have already expired in the process.  C. Apart from non-perishable donations, Food Bank also collects cooked food and perishables from several hotels and pâtisseries. In order to maintain food safety standards, oftentimes, the Food Bank has to reject smaller F&B businesses or cafes who have excess food due to being unable to manage last minute requests for collection within the same day. |  |
|  |
|  |
|  |

|  |
| --- |
| **Challenge Statement** |
| Your challenge is to help the Food Bank by developing an application that makes this redistribution process more efficient through more real-time data sharing. Build an application or live inventory form where Food Bank donors and beneficiaries can connect and either donate food or request food donations. Food Bank employees should get notified of donation opportunities and be able to view their inventory and donations in real time. Pre-set priorities based on the beneficiary’s profile should be included for allocation process. All donations and disbursements should also be recorded for record-keeping and audit purposes. The application should be able to speed up the matching process, cutting down the 2-3 week inventory process into a more real-time process where food donations can be completed within a single day.  This application serves three primary constituents:   * **Food Donors** – Individuals and businesses that donate food. * **Beneficiaries** – Individuals who can request food and receive donations. * **Food Bank Staff** – Responsible for the operations and monitoring of the process.   We know your time is limited at this event. You may decide to focus on a single constituency for your application build or a subset of the constituents. We are looking for creative ideas on how to optimize this process. |
|  |

|  |
| --- |
| **Technology Baseline** |
| For the purpose of this coding challenge, you are not restricted to any specific technology. You can model your solution as a web application, mobile app, responsive app or other. In your roadmap, be prepared to discuss how you would go about approaching this solution if you had more time. In your proposed solutions, please also be prepared to discuss how you would protect the privacy of the participants who leverage your application. |