

**SE 216 – SOFTWARE PROJECT MANAGEMENT**  
**PROJECT NEEDS DOCUMENT**

**PROJECT NAME:**Food Bridge

**GROUP NUMBER and MEMBERS:**

#	SOFTWARE NEEDS	DESCRIPTION
1	Delivery tracking software	Route4Me is the software we chose to optimally find routes for the delivery of foods. This software has GPS tracking which will be essential for the delivery person to see where the delivery spots are. We will use the version 4.6.6. If the version fails to perform in the future, the version will be upgraded to the necessary version. The necessary upgrades and installations will be done by one of the scrum team members. There will be scheduled upgrades to keep the software updated .
2	Database security software	Oracle Advanced Security will be used to ensure the safety of all database. Oracle Advanced Security will protect from unwanted access, data encryption and other threats. The version 11.2 will be used. The mandatory upgrades and installations will be done by one of the scrum team members. There will be scheduled upgrades to keep the software updated .
3	Inventory management systems	We chose NetSuite as our inventory management software. NetSuite provides all the services we need to track all the donated food items in warehouses. NetSuite will allow updates on the stocks and expiry dates for the donated food items. We will use NetSuite premium edition . The necessary upgrades and updates will be done in the future if a fail occurs. The necessary upgrades and installations will be done by one of the scrum team members. There will be scheduled upgrades to keep NetSuite updated .
4	IDE compiler	It integrates with version control systems to make coding easier and provides debugging tools, offers project management features, and supports multiple programming

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	languages, improving developer productivity and code quality. We chose IntelliJ IDEA due to its cross-platform compatibility, comprehensive plug-in support, and efficient training requirements.
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#	HARDWARE NEEDS	DESCRIPTION
1	GPS and Location Services	The inclusion of GPS and location service is essential to deliver food from donors to those in need.
2	Mobile Devices	Users will be able to access via smartphones or tablets. Therefore, to maximize accessibility, the app needs to be optimized for a variety of mobile devices, including both iOS and Android platforms.
3	Storage Devices	Storage devices such as hard disks or SSDs with sufficient storage space may be required for storing large project files.
4	Test Devices	Test devices are necessary to ensure that the developed application works correctly on different operating systems and browsers.
5	Servers	The DL560 Gen10 excels in delivering superior performance, high availability, and simplified management for large-scale business applications. So this server is useful for the Food Bridge project, because this project has a lot of user, donor and food quality data.
6	Firewalls	Protects donors and users locations and personal data, so it is important to protect and do not allow third person to access them. Palo Alto Networks Next-Generation Firewalls detect known and unknown threats, including encrypted net traffic, using intelligence generated along many thousands of organizations. It means, it reduces risks and prevents many kind of attacks.
7	Barcode Tools	After the donated foods are approved by food quality experts, a barcode will be attached to them and the information read from this barcode will be kept and used in databases.  Datalogic Skorpion X3 Data ver. 06 will do. Compared to competing devices, it is quite good that it has a display screen,

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		can read worn texts (the packaging of some products may be in bad condition), and can read quickly.
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#	SUPPORT NEEDS	DESCRIPTION
1	Support from Stakeholders	Monetary support from stakeholders that were mentioned in previous documents such as Government agencies, charity groups and health organizations.
2	Customer Support	Preparing a baseline support service for workers to be able to interact with and help users, food donors and food recipients.
3	Government Support	The government can be help in the public promotion and adoption of the food bridge application and provide financial support.
4	Volunteer Work Support	Basic help and support from altruistic people in many ways such as help in delivering food or collecting food (delivery help
5	Technicians Support	The project will need technicians' support in case of any problems related to hardware. They can be needed at any moment to fix the problem if it occurs during the developing stage.
6	Support From Testers	The application needs to be tested to prevent any errors or bugs before publishing. After everything is done, testers will test the application as the last step.
7	Designers support	Graphic designers will design the layout of the application after the requirements gathering stage.