

SE 216 – SOFTWARE PROJECT MANAGEMENT

SOFTWARE TOOLS DOCUMENT

PROJECT NAME: FoodBridge

GROUP NUMBER and MEMBERS: Hakkı Nasiboğlu, Süeda Aktürk, Öykü İrem Oplazgil, Ece Günal, Atalay Doğan, Mehmet Tatlı

TASK #	PROJECT TASKS WHICH REQUIRE SOFTWARE TOOL SUPPORT
1	System Design and Architecture
2	Development (IDE)
3	Database System

SOFTWARE TOOLS FOR TASK 1:

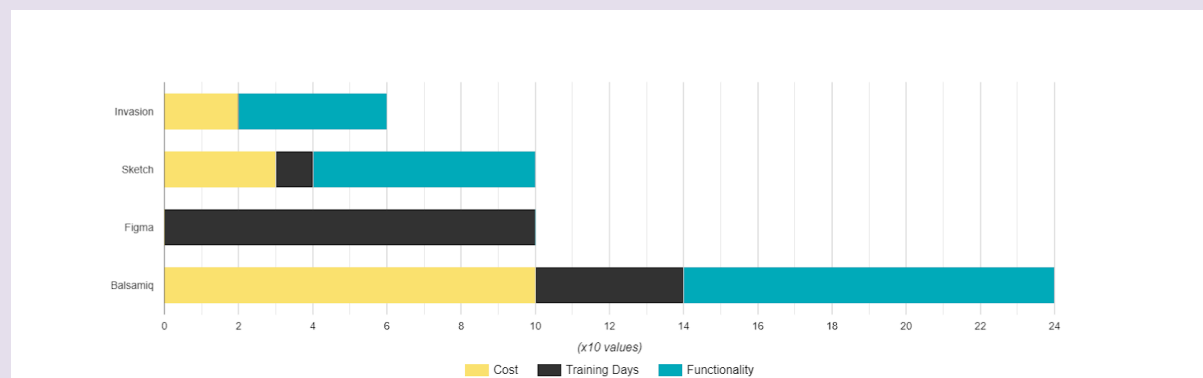
Tool Cost/Training/Functionality Data

Tool	Invision	Sketch	Figma	Balsamiq
Cost	\$96	\$120	\$0	\$490
Training Days	2	3	10	5
Functionality	45	60	25	80

Normalized Cost/Training/Functionality Data

Tool	Invision	Sketch	Figma	Balsamiq
Cost	0.196	0.245	0	1
Training Days	0	0.125	1	0.375
Functionality	0.364	0.636	0	1

Normalized Tool Graph



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Which tool has been selected? Why?

We decided to use Sketch to do our design for our project.

We also needed Balsamiq as our support tool.

We chose to use Sketch because we thought it was cost and time efficient.

As for our support, Balsamiq had the most functionality which was needed for the project.

SOFTWARE TOOLS FOR TASK 2:

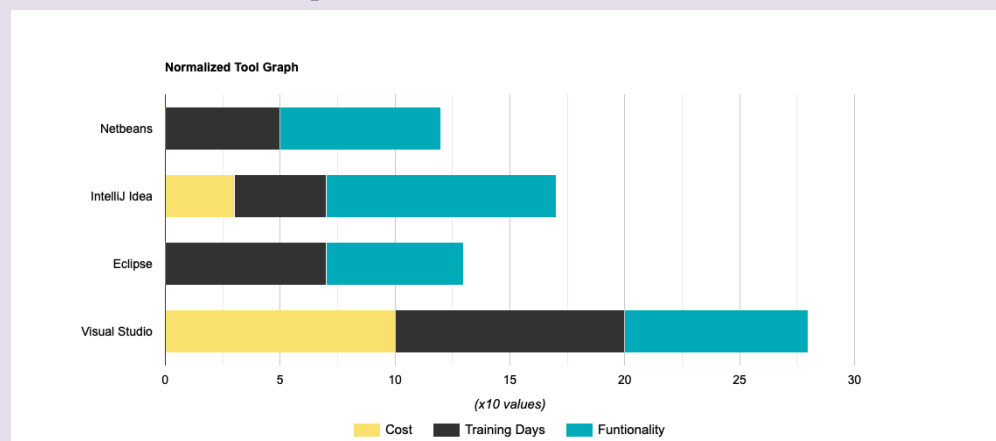
Tool Cost/Training/Functionality Data

Tool	NetBeans	IntelliJ Idea	Eclipse	Visual Studio	
Cost	\$0	\$28	\$0	\$100	
Training Days	5	4	7	10	
Functionality	70	100	60	80	

Normalized Cost/Training/Functionality Data

Tool	NetBeans	IntelliJ Idea	Eclipse	Visual Studio
Cost	0	0.28	0	1
Training Days	0.5	0.4	0.7	1
Functionality	0.7	1	0.6	0.8

Normalized Tool Graph



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Which tool has been selected? Why?

Although IntelliJ Idea has higher functionality than others and NetBeans and Eclipse are free, we preferred Visual Studio. The Food Bridge application aims to reach every person and every technology, so the application should be downloadable to both Android and iOS devices and should also be accessible on the web. Visual studio supports the use of programming languages to be developed on all three sides. It allows the use of Html, Css, Java and even the Swift language with a few plugins.

SOFTWARE TOOLS FOR TASK 3:

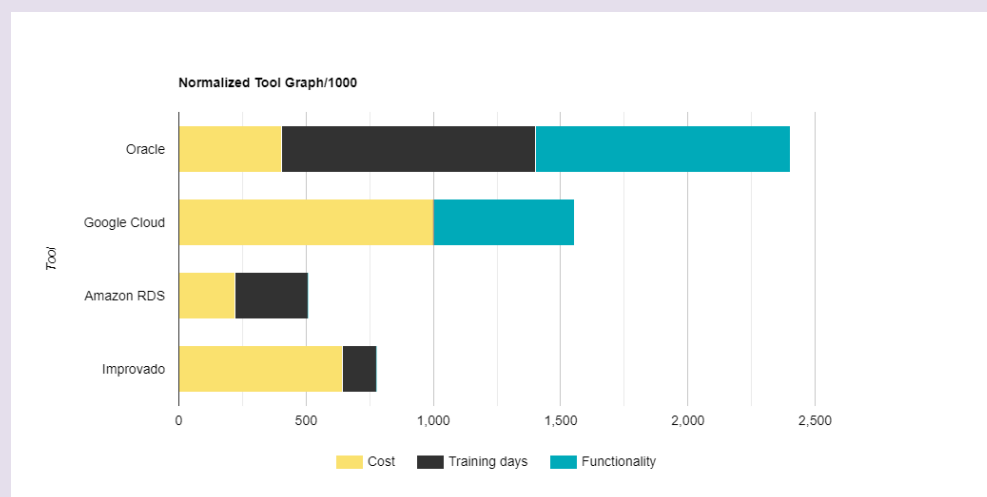
Tool Cost/Training/Functionality Data

Tool	Oracle	Google Cloud	Amazon RDS	Improvado
Cost	\$3744	\$6500	\$5100	\$6000
Training Days	120	42	63	56
Functionality	80	75	70	70

Normalized Cost/Training/Functionality Data

Tool	Oracle	Google Cloud	Amazon RDS	Improvado
Cost	0.402	1	0.22	0.644
Training Days	1	0	0.29	0.133
Functionality	1	0.556	0	0

Normalized Tool Graph



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Which tool has been selected? Why?

Oracle database tool provides quite good speed and also with large databases. Also, Oracle database tool improves the performance and speed of consideration with transaction control and locking. Despite the longer learning period, it has higher functionality and is more affordable than other database tools. Additionally, it provides high security and provides support for many databases.