

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:

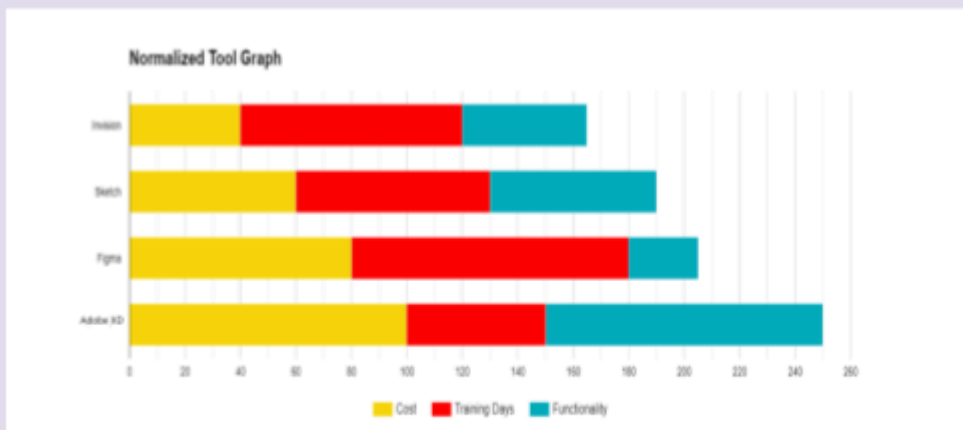
Tool Cost/Training/Functionality Data

| Tool | Invision | Sketch | Figma | Adobe XD |
|---------------|----------|--------|-------|----------|
| Cost | \$60 | \$120 | \$180 | \$190 |
| Training Days | 8 | 7 | 10 | 5 |
| Functionality | 45 | 60 | 25 | 100 |

Normalized Cost/Training/Functionality Data

| Tool | Invision | Sketch | Figma | Adobe XD |
|---------------|----------|--------|-------|----------|
| Cost | 0.4 | 0.6 | 0.8 | 1 |
| Training Days | 0.8 | 0.7 | 1 | 0.5 |
| Functionality | 0.45 | 0.60 | 0.25 | 1 |

Normalized Tool Graph



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Which tool has been selected? Why?

We decided to use Adobe XD to do our design for our project.

Even though Adobe XD is the most expensive of the tools we still chose it because of its high functionality and for the low amount of training days.

SOFTWARE TOOLS FOR TASK 2:

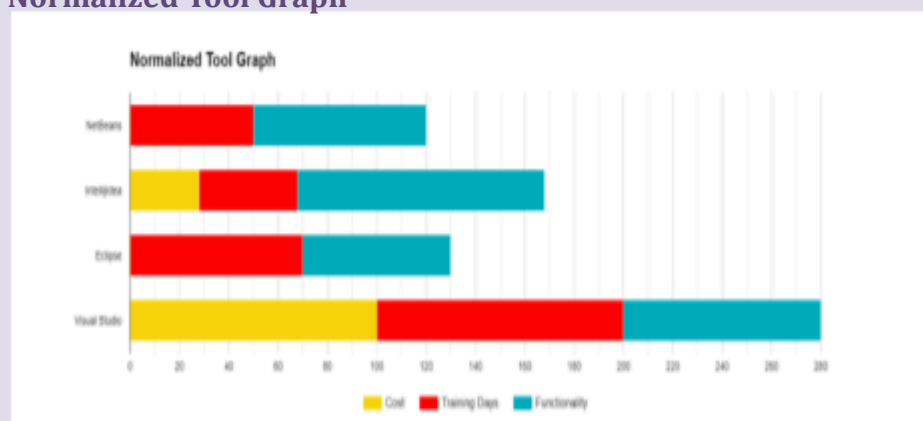
Tool Cost/Training/Functionality Data

| 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:

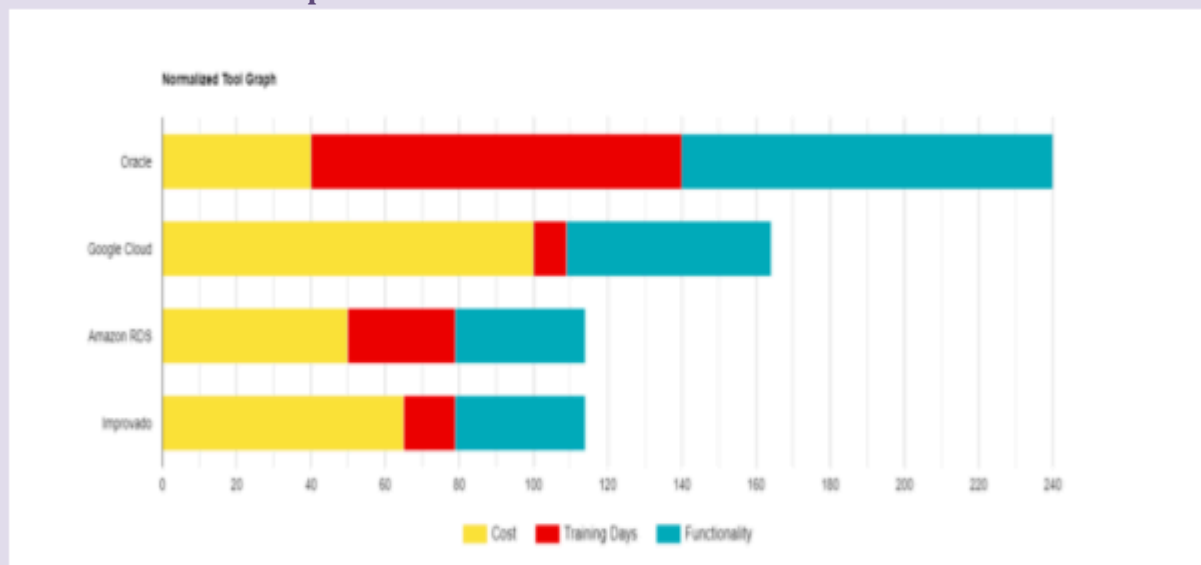
Tool Cost/Training/Functionality Data

| 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 | 0.50 | 0.644 |
| Training Days | 1 | 0.09 | 0.29 | 0.133 |
| Functionality | 1 | 0.556 | 0.35 | 0.35 |

Normalized Tool Graph



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.