SE 216 – SOFTWARE PROJECT MANAGEMENT SOFTWARE TOOLS DOCUMENT

PROJECT NAME: SharpFridge

GROUP NUMBER and MEMBERS: Group-2; Canercan Demir, Merve Topal,

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TASK #	PROJECT TASKS WHICH REQUIRE SOFTWARE TOOL SUPPORT
1	Mobile Push Notifications
2	Database Integration
3	Product Icons
4	Project Task Management

SOFTWARE TOOLS FOR TASK 1: Mobile Push Notifications

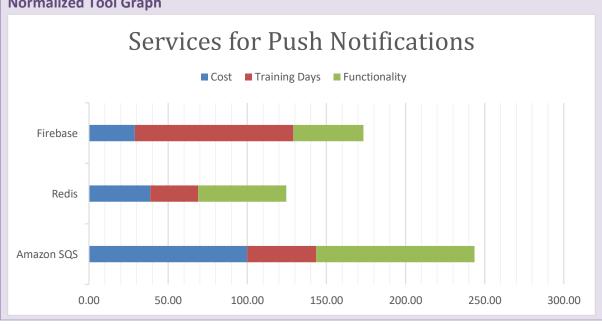
Tool Cost/Training/Functionality Data

Tool	Amazon SQS	Redis	Firebase
Cost	\$1,552.42/mo	\$600/mo	\$450/mo
Training Days	10	7	23
Functionality	90	50	40

Normalized Cost/Training/Functionality Data

Tool	Amazon SQS	Redis	Firebase
Cost	100	38.7	29.0
Training Days	43.5	30.4	100
Functionality	100	55.5	44.4

Normalized Tool Graph



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Which tool has been selected? Why?

For push notification, speed and robustness are more important than costs. Therefore, we choose Amazon simple queue service as our cache database.

SOFTWARE TOOLS FOR TASK 2: Database Integration

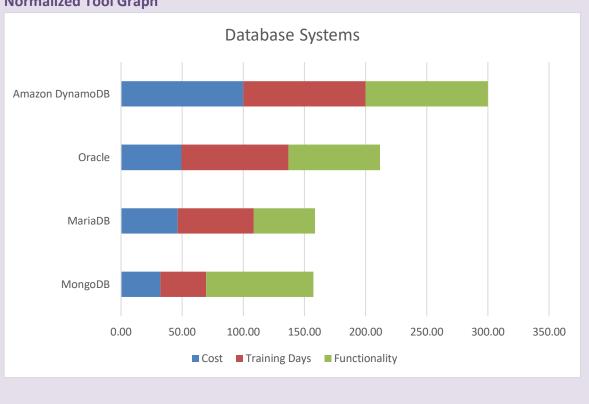
Tool Cost/Training/Functionality Data

Tool	MongoDB	MariaDB	Oracle	DynamoDB
Cost	\$300/Mo	\$430/Mo	\$460/Mo	\$930/Mo
Training Days	3	5	7	8
Functionality	70	40	60	80

Normalized Cost/Training/Functionality Data

Tool	MongoDB	MariaDB	Oracle	DynamoDB
Cost	32.2	46.2	49.4	100
Training Days	37.5	62.5	87.5	100
Functionality	87.5	50	75	100

Normalized Tool Graph



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Which tool has been selected? Why?

DynamoDB is chosen for its reliablity, speed and flexibility. When there is a huge data traffic, DynaDB handles it well. Functionality ranking reflects the recognition of DynamoDB's scalability, performance, and managed nature, making it highly effective, particularly for large-scale projects.

SOFTWARE TOOLS FOR TASK 3: Product Icons

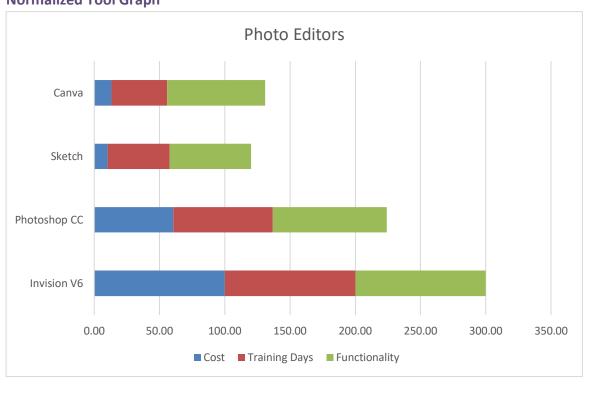
Tool Cost/Training/Functionality Data

Tool	InVision V6	Photoshop CC	Sketch	Canva
Cost	\$99/Mo	\$60/Mo	\$10/Mo	\$13/Mo
Training Days	21	16	10	9
Functionality	80	70	50	60

Normalized Cost/Training/Functionality Data

Tool	InVision V6	Photoshop CC	Sketch	Canva
Cost	100	60.6	10.1	13.1
Training Days	100	76.1	47.6	42.8
Functionality	100	87.5	62.5	75

Normalized Tool Graph



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Which tool has been selected? Why?

Photoshop CC is a popular choice for desing. It is chosen due to the ease of finding a designer, its large community and abundance of resources on the web. Also, its pricing is in accaptable boundaries.

SOFTWARE TOOLS FOR TASK 4: Project Task Management

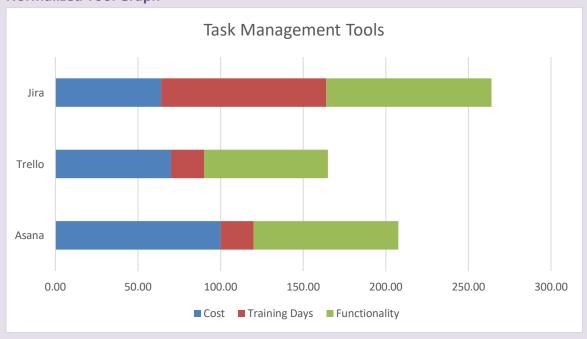
Tool Cost/Training/Functionality Data

Tool	Asana	Trello	Jira
Cost	\$250/Mo	\$175/Mo	\$160/Mo
Training Days	1	1	5
Functionality	70	60	80

Normalized Cost/Training/Functionality Data

Tool	Asana	Trello	Jira
Cost	100	70	64
Training Days	20	20	100
Functionality	87.5	75	100

Normalized Tool Graph



Which tool has been selected? Why?

For project management, Jira is selected. Jira is more cost-effective. Suitable for large, complex projects with advanced project management needs. Also, agile implementation of Jira is more advanced.

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