

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

**PROJECT NAME:** CodeCraft

**GROUP NUMBER and MEMBERS:** Group Number 3, Başar Kocabaş, Lorin Erol, Mert Koçyiğit, Mehmet Taşoğlu, Efran Ergelen, Haktan Yolcu

TASK #	PROJECT TASKS WHICH REQUIRE SOFTWARE TOOL SUPPORT
1	Storing and organizing all of the Data
2	Design visually appealing and user-friendly interfaces for the platform.
3	Integrating Online AI assistant for the platform

**SOFTWARE TOOLS FOR TASK 1:**

**Tool Cost/Training/Functionality Data**

Tool	Google Cloud SQL	Oracle MySQL	MongoDB Atlas	Microsoft Azure Cosmos DB
Cost	\$100	\$179	\$57	\$11
Training Days	15 days	7 days	10 days	21 days
Functionality	70	47	60	88

**Normalized Cost/Training/Functionality Data**

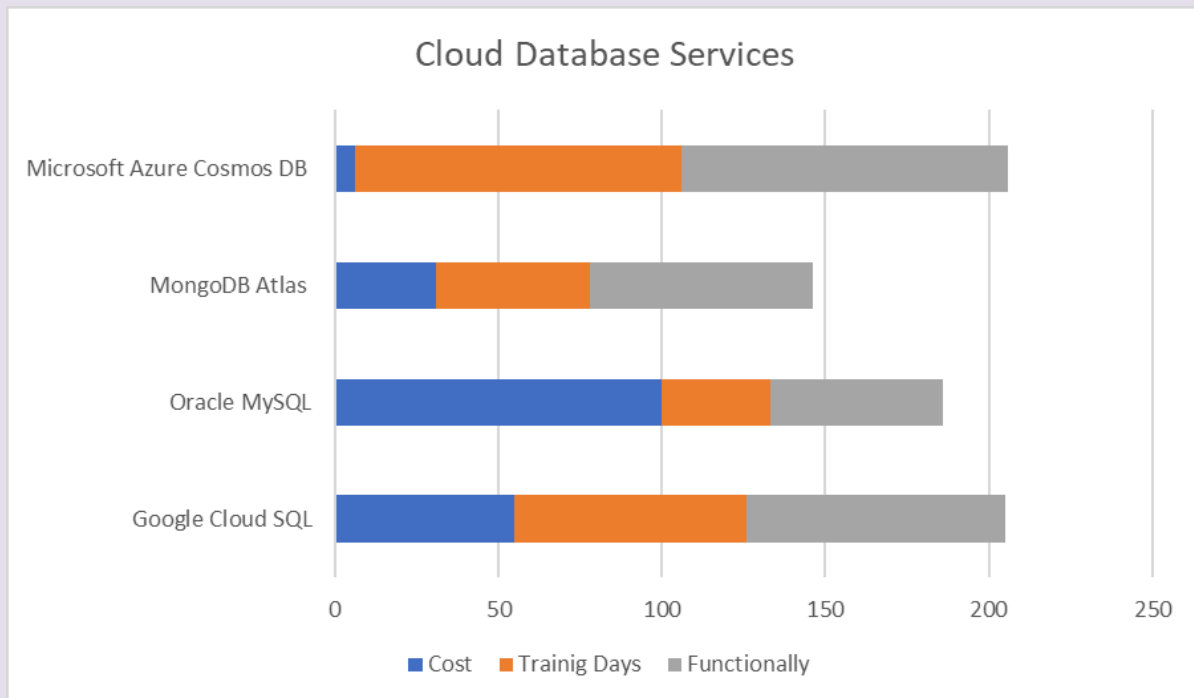
Tool	Google Cloud SQL	Oracle MySQL	MongoDB Atlas	Microsoft Azure Cosmos DB
Cost	55.8	100	31.8	6.1
Training Days	71.4	33.3	47.6	100
Functionality	79.5	53.4	68.1	100

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#### Normalized Tool Graph



#### Which tool has been selected? Why?

Microsoft Azure Cosmos DB has been chosen for its lower cost and supporting open source PostgreSQL, MongoDB, and Cassandra. This noSQLs will be used to keep track of the progress data and other types of non-structured data parts of the project . Google Cloud SQL is also needed to support the design for SQL applications such as usernames, login credentials and other well structured data.

#### SOFTWARE TOOLS FOR TASK 2:

##### Tool Cost/Training/Functionality Data

Tool	Adobe XD	Figma	Sketch	InVision Studio
Cost	\$34	\$12	\$10	\$5
Training Days	12	8	8	10
Functionality	90	50	50	80

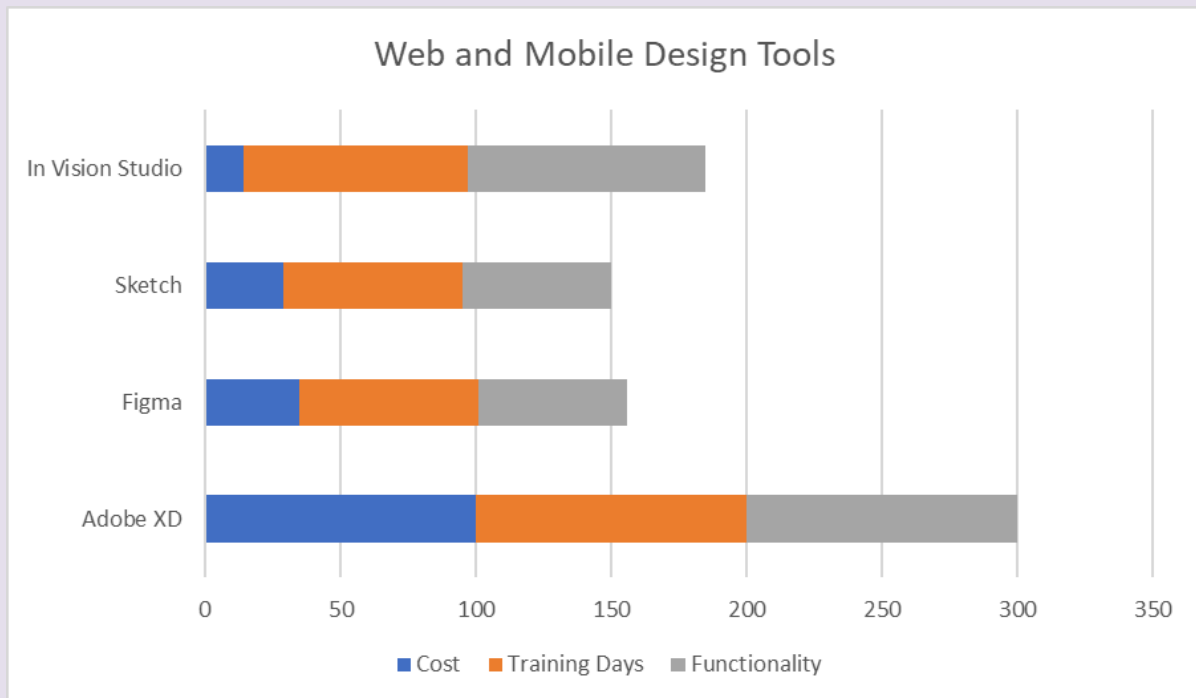
##### Normalized Cost/Training/Functionality Data

Tool	Adobe XD	Figma	Sketch	InVision Studio
Cost	100	35.2	29.4	14.7
Training Days	100	66.6	66.6	83.3
Functionality	100	55.5	55.5	88.8

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#### Normalized Tool Graph



#### Which tool has been selected? Why?

AdobeXD has been selected for its Powerful and versatile tools with a wide range of features for UI/UX design, including vector graphics editing, prototyping, animation, and collaboration (paid plans).It is for projects that require comprehensive UI/UX design functionalities and collaboration features, especially if the team is already familiar with Adobe products.

#### SOFTWARE TOOLS FOR TASK 3:

##### Tool Cost/Training/Functionality Data

Tool	GPT-4 Turbo	GPT-4	GPT-3.5 Turbo	Gemini
Cost	\$20	\$45	\$1	Free
Training Days	10	7	7	7
Functionality	80	70	60	75

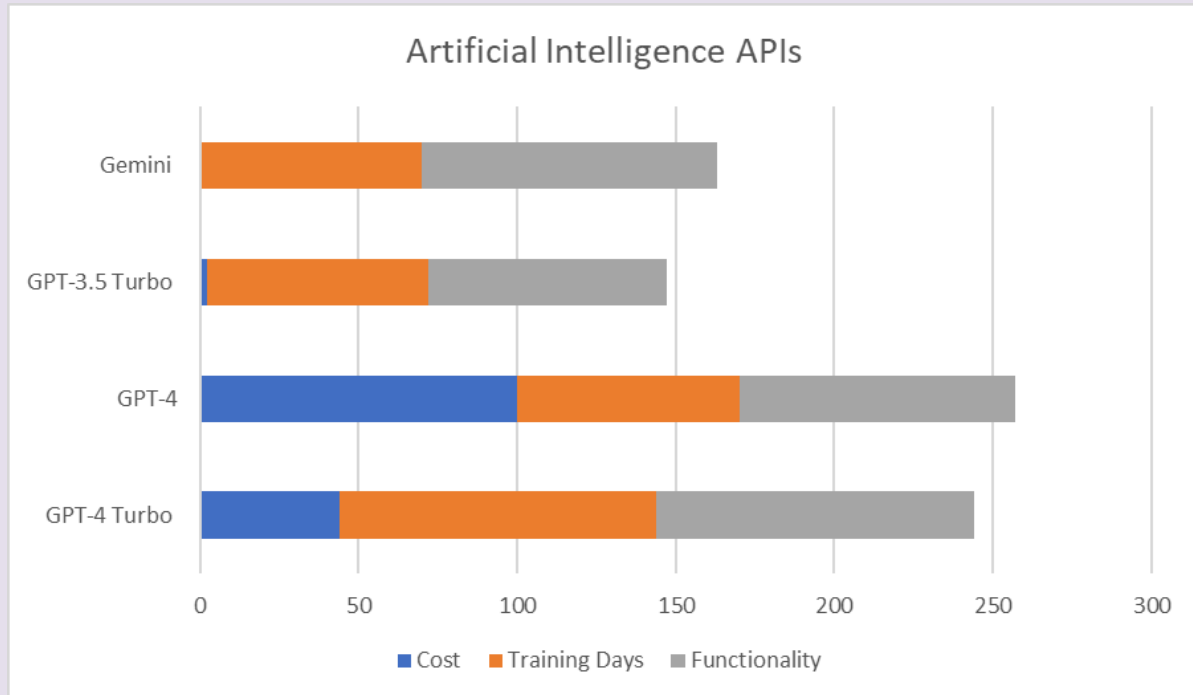
##### Normalized Cost/Training/Functionality Data

Tool	GPT-4 Turbo	GPT-4	GPT-3.5 Turbo	Gemini
Cost	44.4	100	2.2	0
Training Days	100	70	70	70
Functionality	100	87.5	75	93.7

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#### Normalized Tool Graph



#### Which tool has been selected? Why?

Among the evaluated tools, Gemini emerges as the most suitable choice for integrating an AI assistant into your CodeCraft platform. While GPT-4 Turbo boasts the highest functionality score, its estimated cost and training days are significantly higher. Similarly, GPT-4 and GPT-3.5 Turbo come with either a considerable cost or lower functionality.

Gemini stands out for its free access and relatively lower training investment. Despite a slightly lower functionality score compared to GPT-4 Turbo, Gemini can still effectively guide users, optimize code, and fulfill the envisioned functionalities of the AI assistant. This cost-effective solution allows to experiment and explore the potential of AI integration within CodeCraft without a substantial initial investment.