Milestones, Timeline, and Effort Matrix

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Milestones

Milestone 1 – Research Frameworks and Tools

- Definition of Done: The team has decided on a front-end framework, ORM, database management system, and API. A boilerplate repo with setup for frameworks has been created.

Milestone 2 – Application Design

- Definition of Done: Visual mockups for all major pages of application are completed using developed branding. Content is planned and included in UI mockups. An information architecture has been created to map application.

Milestone 3 – Database Design

- The application is connected to chosen database system through ORM. Database schema have been created to fit application functions and schema are mapped in code using ORM.

Milestone 4 (Agile) – Application Development

- Definition of Done: application accomplishes all user stories. Development tasks from effort matrix have been completed or are in progress.

Milestone 5 – Beta Testing and Deployment

- Definition of Done: Application has been populated with test data and thoroughly tested by beta users

Timeline

The following table organizes tasks developed in the task list by related milestone. For each task, an expected time frame is defined. Milestones are marked as complete at the completion of the last associated task.

Milestone	Milestone Start	Milestone End	Task	Assignee	Time Frame	Notes

			Research Front End framework options	Kate	10/2/25 – 10/16/25	Done early
1	10/2/25	11/1/25	Research Front End framework options	Kate	10/2/25 – 10/16/25	Done early
1	10/2/25	11/1/25	Research data storage options	Kevin	10/16/25 – 10/20/25	Done before ORM selection
1	10/2/25	11/1/25	Choose an ORM	Kevin	10/20/25 – 10/25/25	Requires DB research
1	10/2/25	11/1/25	Create repo from boilerplate code	Maggie	10/25/25 – 11/1/25	Setup step
2	11/1/25	12/6/25	Develop UI mockups	Kate	11/1/25 – 11/10/25	Input to UI implementation
2	11/1/25	12/6/25	Design visual branding	Kate	11/10/25 – 12/20/25	Can overlap with mockups
2	11/1/25	12/6/25	Create content (FAQ, wording, etc)	Kate	11/20/25 – 11/25/25	Text assets for the app
2	11/1/25	12/6/25	Research 3D engine for AR image viewing	Kevin	11/25/25 – 12/6/25	Independent
3	12/6/25	1/20/26	Design database schema	Maggie	1/6/26 – 1/20/26	Needs ORM
4	1/20/26	3/7/26	Research & develop device API	Kevin	1/20/26 – 1/24/26	Hardware integration
4	1/20/26	3/7/26	Develop SAML 2FA auth system	Maggie	1/24/26 – 2/7/26	Security-critical
4	1/20/26	3/7/26	Develop post scheduler using ORM	Maggie	2/7/26 – 2/21/26	Requires schema + ORM
4	1/20/26	3/7/26	Develop recommendation algorithm	Kevin	2/21/26 – 2/28/26	Logic-based, backend only
4	1/20/26	3/7/26	Develop/refine user interface	Maggie	2/28/26 – 3/2/26	Bigger chunk of time
4	1/20/26	3/7/26	Write DB queries/mutations	Maggie	3/2/26 – 3/4/26	Needs schema + scheduler done
4	1/20/26	3/7/26	Integrate existing search tools	Kate	3/4/26 – 3/7/26	Based on existing solutions
5	3/7/26	4/17/26	Recruit beta testers	Kate	3/7/26 – 3/14/26	Prep for testing
5	3/7/26	4/17/26	Populate DB with test users/posts	Maggie	3/14/26 – 3/28/26	Pre-QA step
5	3/7/26	4/17/26	Buffer / Final Debugging & QA	All	3/28/26 – 4/17/26	Final stretch

Effort Matrix

The following matrix breaks down hours estimates for each task defined above. For each task, an administrative margin of 10% is added to account for documentation, project

management, etc. A 20% reserve margin is also applied to account for unexpected circumstances.

Task	Assignee	Raw Effort (hrs)	+ Admin (10%)	+ Margin (20%)	Total (hrs)
Research FE framework options	Kate	4	0.4	0.8	5.2
Research data storage options	Kevin	4	0.4	0.8	5.2
Choose an ORM	Kevin	4	0.4	0.8	5.2
Develop UI mockups	Kate	8	0.8	1.6	10.4
Design visual branding	Kate	8	0.8	1.6	10.4
Create content	Kate	6	0.6	1.2	7.8
Research 3D engine	Kevin	4	0.4	0.8	5.2
Create boilerplate repo	Maggie	4	0.4	0.8	5.2
Design DB schema	Maggie	10	1	2	13
Device info API	Kevin	10	1	2	13
SAML 2FA system	Maggie	12	1.2	2.4	15.6
Post scheduler	Maggie	12	1.2	2.4	15.6
Recommendation algorithm	Kevin	16	1.6	3.2	20.8

UI implementation	Maggie	16	1.6	3.2	20.8
DB queries/mutations	Maggie	8	0.8	1.6	10.4
Integrate search tools	Kate	12	1.2	2.4	15.6
Recruit beta testers	Kate	4	0.4	0.8	5.2
Populate DB with test data	Maggie	2	0.2	0.4	2.6
QA & Debugging	All	12	1.2	2.4	15.6
TOTALS		**156**	**15.6**	**31.2**	**202.8**