Milestones List – PackingPal

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Setup Tasks

Setting up the development environment and everything that is essential for getting development started. These tasks entail setting up the Netlify instance, Visual Studio Code, and the GitHub repository. This is the first major milestone for getting everyone on the same page and getting off the ground. A deliverable would be proving that the development environment is properly set up to other group members, and that the Netlify instance is up and properly working.

Research Tasks

One of the main parts of planning the project is research tasks. We have six major research tasks on the docket, including researching react fundamentals, next.js, OpenAI API usability, export format options, light/dark mode for Tailwind CSS, and JavaScript. This will be the next major milestone, as it is very hard to start development when you don't know what you're doing.

Design Tasks

The next step after researching is to start designing some of the elements of the website, or at least getting specifications for some of the proposed functionality. The main tasking associated with this milestone is designing the web app flow, the frontend, and site logo. After research tasks, this would be the next major milestone. Good deliverables would be a mockup design of the frontend and site logo, as well as a flowchart demonstrating the web app flow. This is important to be able to know how a user should interact with the system and will guide development of these features.

AI Integration

Once we finish researching and designing, the next step is to work on the AI integration and all aspects of that. The main deliverable will be working chatbot functionality. This will be worked on in parallel with the user interface and database functionality milestones.

User Interface

The user interface can also be started after the research and design tasks are completed. The main tasking is to make sure all aspects of the user interface are completed, and the deliverable will be a demonstration that all functionality is created and working properly. As stated above, this will be worked on in parallel with the AI integration and database functionality milestones.

Database Tasks

Like the two milestones above, the database tasks can also be started after research and design is complete. These tasks entail setup of the database framework, developing login functionality, and

developing functionality to store created lists. The deliverable will be a working database that properly stores the relevant data when demonstrated.

Test/Documentation Tasks

Testing and documentation are the final tasks for the project standpoint, and that is just making sure we have a proper user guide as well as ensuring that all tests pass. This is the final step before "release" per se. Deliverables would be a test matrix ensuring that all developed tests pass properly, and that there exists a user guide that properly explains the use cases for the various functionality as well as some basic specifications.

Timeline

Task	Expected Start	Expected Completion
Research and Refresh on React fundamentals	9/11	10/2
Research Next.js	9/18	10/16
Refresh on Javascript	9/11	10/2
Setup Netlify	9/18	10/16
Setup VSCode	9/18	10/16
Design Web App Flow	9/25	Start of January
Design frontend	9/25	Start of January
Research OpenAi API usability	9/18	End of March
Document Steps to Use Product	Start of January	End of March
Develop the User Interface	Start of November	End of February
Integrate AI	Start of November	End of March
Setup database framework	Start of January	End of March
Research list export Options	Start of January	End of March
Test various browser compatibility	Start of November	End of March
Research Light and Dark Mode for Tailwind	Start of January	End of March
Design Logo/Graphic	10/2	End of December
Develop Login	Start of January	End of March
Develop Past Lists Function	Start of January	End of March

Effort Matrix

All numbers are percentages. Unless otherwise stated, the team member with the largest effort assigned to them is the member of primary responsibility for that task.

		Aiden	Jessica	Monica
Tasks:	Research and refresh on React Fundamentals	33.33333	33.33333	33.33333
	Research Next.js	50	25	25
	Refresh on Javascript	33.33333	33.33333	33.33333
	Setup Netlify	100	0	0
	Set up Vscode	33.33333	33.33333	33.33333
	Design Web App Flow	33.33333	33.33333	33.33333
	Design Frontend	33.33333	33.33333	33.33333
	Research Open AI	50	0	50
	Document steps to use product	10	80	10
	Develop the user interface	10	10	80
	Integrate the AI	75	0	25
	Setup Database Framework	15	70	15
	Research List export options	15	15	70
	Test Various	0	100	0
	Light/Dark Mode in Tailwind	0	0	100
	Design Logo / Graphic	33.33333	33.33333	33.33333
	Hamburger Menu	0	0	100
	Develop Login	0	100	0
	Develop Past Lists Function	80	10	10