Project Breakdown for 'Carlytical' Car-Buying Platform

Project Overview

The Carlytical project aims to create a comprehensive online platform for purchasing cars, which simplifies the car-buying process,
from searching for cars to comparing options and finalizing the purchase. The platform includes features like user-friendly car comparisons,
cost breakdowns, financing options, and documentation verification, ultimately delivering a seamless and efficient experience for car buyers.

Key Project Phases, Timeline, Team & Budget Breakdown

Phase	Duration	Description	Deliverables
Planning & Research	1 month	Initial research, finalization of project scope, requirements gathering, and setting up project infrastructure.	Detailed project plan, wireframes, and initial mockups.
UI/UX Design	1 month (overlaps)	Design all user interfaces, create wireframes, and prototypes for main pages.	High-fidelity prototypes, design assets, and guidelines.
Backend Development	6-8 months	Develop APIs, user authentication, car data integration, cost calculation algorithms, and recommendation engine.	Backend APIs, data management system, integration scripts.

Frontend Development	6-8 months	Implement UI components, responsive design, and integrate frontend with backend.	Fully functional frontend for user interactions.
Testing & QA	1-2 months	Conduct unit, integration, and user acceptance testing. Debugging and performance optimization.	Testing reports, resolved bug fixes, and final product.
Deployment & Support	1 month	Deploy the platform to the server, set up monitoring, and ensure smooth launch.	Live platform and maintenance documentation.

Role	Monthly Cost	Total Cost (6 Months)
UI/UX Designer	$500 (one-time)	$500
Frontend Engineer	$500/month	$3,000
Backend Engineer	$750/month	$4,500
Total		$8,000

Market Rate Comparison

Role	Current Rate	Industry Standard	Difference
UI/UX Designer	$500	$1,500 (average)	$1,000 saved
Frontend Engineer	$500/month	$1,200/month	$700 saved per month
Backend Engineer	$750/month	$1,500/month	$750 saved per month
Total Savings			$2,450 saved per month

Summary
The project, budgeted for $8,000 over 6 months, is highly cost-effective compared to industry standards.
Carlytical is expected to save approximately $2,450 per month in development costs, with total savings reaching up to $14,700 over 6 months.
If extended to 8 months, the overall savings would further increase.

Deliverables by Month

- Month 1: Project planning, UI/UX design completion, initial backend setup.
- Month 2: Backend API development starts, frontend starts with basic UI integration.
- Month 3: Backend integration of third-party services (car listings, finance), frontend expands to incorporate search and comparison features.
- Month 4: Advanced backend features (recommendation engine), frontend fully interactive.
- Month 5: Testing phase, backend optimizations, bug fixing.
- Month 6: Final testing, deployment, project handover.