Costing

Features in the App	Hours to make it	Cost to make it
Geolocation-related features	46h	$2,300
Payment integration	85h	$4,250
Registration & Profile	61h	$3,050
Notifications	70h	$3,500
Ride scheduling	110h	$5,500
Framework and libraries integration for back-end	137h	$6,850
Framework and libraries integration for Android / iOS	132h / 123h	$6,600 / $6,150
UI/UX design for Android / iOS	110h / 130h	$5,500 / $6,500
Cost for just app Andriod/ IOS	751/ 762 to complete app	37,550/ 38100 cost per app user
Admin Panel		
Authorization	6h	$300
Admin management	50h	$2,500
Driver management	50h	$2,500
User management	50h	$2,500
Payment management	35h	$1,750
Promotion management	36h	$1,800
Review management	28h	$1,400
Issue management	32h	$1,600
Total	287h	$14,350
Employee cost per hour		50 dollars an hour/ for one employee
Total App cost		$90,000
To get LLC Paperwork		$890
Lawyer to make Contract		$1,000
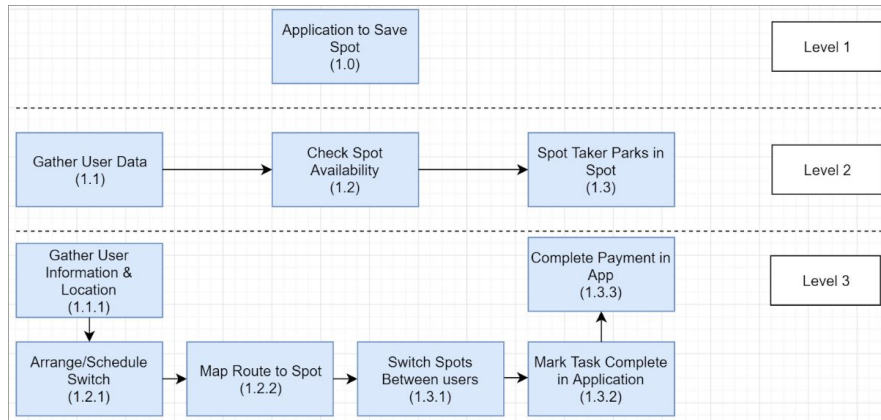
Reliability and Maintainability

3.D.i. Set Reliability Target				
MTBF for Arrange/Schedule Switch (1.2.1)	500	hrs		
MTBF for Switch Spots Between Users (1.3.1)	200	hrs		
MTBF for Complete Payment in App (1.3.3)	400	hrs		
Failure Rate for Arrange/Schedule Switch (1.2.1)	0.002	Failures per hour	λ	From MTBF
Failure Rate for Switch Spots Between Users (1.3.1)	0.005	Failures per hour	λ	From MTBF
Failure Rate for Complete payment in App (1.3.3)	0.0025	Failures per hour	λ	From MTBF
System Failure Rate:	0.0095	Failures per hour	λ	
System MTBF:	105	hrs	MTBF	
Estimated Mct:	2	hrs		

3.D.ii. Develop Maintenance Plan				
Estimate Preventive Maintenance Schedule	0.005		FPT	Once every 100 hours MTBS
Estimate Preventive Maintenance Time	2	Hours	MPT	
MTBF for Complete Payment in App (1.3.3)				
Mean Time Between Maintenance (MTBM)	51.28	hrs	MTBM	

3.E. Compute System Reliability, Availability				
System Failure Rate	0.0095	Failures per hour	λ	
System MTBF	105	hrs	MTBF	
Inherent Availability (Ai)	0.9814		Ai	
Achieved Availability (Aa)	0.9625		Aa	
Operational Availability (Ao)	<0.9625		Ao	

Implementation

Measures of Costing