Parki STD

TC#	Section	Test Case Name	Severity	Preconditions	Steps	Expected Result	
1.1 C	pen Parking	Open new parking (valid)	High	Driver user exists; slot is free	1. Login as driver2. Open parking with valid ca	ar/slc Parking appears in active sessions	
1.2 C	pen Parking	Open parking - slot unavailable	High	Slot occupied by another car	1. Occupy slot A2. Open parking for car B, sar	1. Occupy slot A2. Open parking for car B, same s Error: "Slot already occupied"	
1.3 C	pen Parking	Open parking - duplicate car	Critical	Car X parked by driver1	1. Driver1 parks car X2. Driver2 attempts sam	e ca Error: "Duplicate parking prevented"	
1.4 C	pen Parking	Open parking - invalid plate	Medium		1. Attempt to open parking with plate '12abc#(@' or Error: "Invalid license plate format"	
1.5 C	pen Parking	Open parking - missing fields	Medium		1. Submit form with missing car/slot	Error on required fields	
1.6 C	pen Parking	Verify success message	High	Parking opened successfully	1. Open valid parking session	UI shows "Parking started"	
1.7 C	pen Parking	Verify parking appears in dashboard	High	Parking opened successfully	1. Open parking2. Refresh dashboard	Car & slot present in open sessions	
1.8 C	pen Parking	Server response structure	Medium	API available (if exists)	1. Inspect response for POST /start	JSON/HTML has all fields (car, slot, user, etc.)	
1.9 C	pen Parking	Error response structure	Medium		1. Submit invalid data2. Inspect response	Error fields/messages present	
2.1 C	lose Parking	Close active parking	High	Active parking exists	1. Start parking2. End parking	Session removed from active, appears in history	
2.2 C	lose Parking	Parking in history	High	Session ended	1. End session2. Go to history page	Car/slot/status shown in history	
2.3 C	lose Parking	Double close not allowed	Medium	Session ended	1. End parking2. Try to end again	Error: "Session already ended" / no action	
2.4 C	lose Parking	Close unowned parking	Medium	Session owned by another user	1. Attempt to end other's session	Permission denied / error	
3.1 C	lose Validation	Close parking not opened	Medium	No session with given ID	Attempt to end non-existing session	Error: "Session not found"	
3.2 C	lose Validation	Close parking with wrong user	Medium	Session owned by another user	1. Try to end other's session	Error / denied	
3.3 C	lose Validation	Close parking, verify in history	High	Active session exists	· · · · · · · · · · · · · · · · · · ·	ck hi Session gone from active, appears with "ended" in history	
4.1 U	ser Management	Add new user (driver)	High	Admin logged in	1. Add user2. Check users list	User in list	
4.2 U	ser Management	Add duplicate user	Medium	User exists	1. Try to add same username again	Error: "Username already exists"	
		Delete user with no parking	Medium	User exists, no active/history	1. Add user2. Delete user	User removed from list	
		Delete user with active parking	High	User has active session	1. Try to delete user	Error: "Cannot delete user with active sessions"	
		Delete user with closed history	Medium	User has only ended sessions	1. Add user2. Open & close parking3. Delete u		
	oundary	Minimum plate length	High	,	Try to open parking with 7-digit plate	Error: "Invalid license plate format"	
	oundary	Maximum plate length	High		Try to open parking with 9+ digit plate	Error: "Invalid license plate format"	
	oundary	Plate with special chars	Medium		1. Plate "12!@#\$%8"	Error: "Invalid license plate format"	
	oundary	Plate with Hebrew/English	Medium		1. Plate "1234abcd" or "12345"	Error: "Invalid license plate format"	
	oundary	Slot number 0	Medium		1. Open parking slot=0	Error: "Invalid slot"	
	oundary	Slot number max+1	Medium	System max known	Open parking slot=max+1	Error: "Slot does not exist"	
	oundary	Username too short	Medium	Cyclem max ratem	1. Add user "ab"	Error: "Username too short"	
	oundary	Username too long	Medium		1. Add user (over 20 chars)	Error: "Username too long"	
	oundary	Password empty	High		Add user with empty password	Error: "Password required"	
	oundary	Password boundary length	Medium		Add user with min/max allowed password	Success or error as per allowed	
	oundary	First/last valid slot	Medium	System min/max known	Open parking on slot=12. On slot=max	Parking opens successfully	
	oundary	Multiple sessions per user	High	Cystem min/max known	Same user tries to open >1 session	Prevented; only one allowed	
	ees, Time, Files	Parking fee - minimum time	Medium		Start/end parking after 1 minute	Fee rounded/calculated as per rules	
	ees, Time, Files	Parking fee - very long duration	Medium		Start/end after 48 hours	Fee calculated correctly	
	ees, Time, Files	Parking fee - very long duration Parking fee - boundary value	Medium		Stativend after 46 hours Lend session at exactly 1/2 hours	Fee is exact, no rounding error	
	ees, Time, Files	Fee for unknown vehicle type	Medium		Create parking with invalid type	Error: "Vehicle type not found"	
	ees, Time, Files	Attach image (valid)	Medium		Upload valid image (jpeg/png <2MB)	Image saved, linked to session	
	ees, Time, Files	• • •	Medium		Upload .txt/.exe as parking image	Error: "Invalid file type"	
		Attach image (invalid type)			1 0 0		
	ees, Time, Files	Attach image (oversized file)	Medium	ADI allows editing times	1. Upload image >2MB	Error/rejection	
	ees, Time, Files	Open parking with ancient/future time		API allows editing times	1. POST start time past/future	Error or system corrects	
	ees, Time, Files	Rapid open/close - no crash	Medium		Open and close sessions rapidly	System handles, no crash/data issue	
6.1 F	ees, Time, Files	Fee/Time overflow	Low		Force huge fee/time value (simulate)	System stable; handled gracefully	

Parki DB Validations								
Test Case Name	Table/Field	Validation Description	Expected DB State	Query Example				
Open new parking (valid)	ParkingSession	חניה חדשה נפתחת, יש שורה חדשה עם end_time ריק, car_plate נכון, slot נכון	row with car_plate=X, slot=Y, end_time=NULL	SELECT * FROM ParkingSession WHERE car_plate=? AND slot=? AND end_time IS NULL;				
Open parking - slot unavailable	ParkingSession	אסור שתיווצר שורה חדשה עם אותו slot (אם כבר תפוס)	No new row created	SELECT COUNT(*) FROM ParkingSession WHERE slot=? AND end_time IS NULL;				
Open parking - duplicate car	ParkingSession	אסור שתיווצר שורה נוספת לאותו רכב עם סשן פתוח	Only one open session per car_plate	SELECT COUNT(*) FROM ParkingSession WHERE car_plate=? AND end_time IS NULL;				
Open parking - invalid plate/missing fields	(N/A)	לא נוצרת חניה חדשה בדאטאבייס	No new row created	SELECT COUNT(*) FROM ParkingSession WHERE car_plate=?;				
Verify parking appears in dashboard	ParkingSession	א עדיין end_time-קיימת שורה עם הנתונים וה	row with end_time=NULL exists	SELECT * FROM ParkingSession WHERE car_plate=? AND slot=? AND end_time IS NULL;				
Close active parking	ParkingSession	end_time עודכן לזמן הסגירה, הרשומה לא מופיעה ברשימת הסשנים הפתוחים	end_time is NOT NULL	SELECT end_time FROM ParkingSession WHERE car_plate=? ORDER BY id DESC LIMIT 1;				
Parking in history	ParkingSession	חניה שהסתיימה – end_time לא ריק, מופיעה בהיסטוריה	end_time is NOT NULL	SELECT * FROM ParkingSession WHERE car_plate=? AND end_time IS NOT NULL;				
Double close not allowed	ParkingSession	(שאר כקודם end_time) אין שינוי	end_time unchanged	דוק זמן עדכון לפני ואחרי				
Add new user (driver)	User	יוזר נוסף לטבלה	row with username=Y	SELECT * FROM User WHERE username=?;				
Add duplicate user	User	אסור שתיווצר שורה כפולה	only one row with username=Y	SELECT COUNT(*) FROM User WHERE username=?;				
Delete user with no parking	User, ParkingSession	היוזר נמחק, לא קיימות שורות עבורו	No row for user	SELECT * FROM User WHERE username=?;				
Delete user with active parking	User, ParkingSession	היוזר לא נמחק, עדיין קיים	user row remains	SELECT * FROM User WHERE username=?;				
Fee calculation/attachment image	ParkingSession	השדה fee מחושב נכון, השדה image_path שמור	correct values in DB	SELECT fee, image_path FROM ParkingSession WHERE id=?;				