

Class Name	Responsibilities	Collaborators
ReservationSystem	<p>Parse command line arguments</p> <p>Create/load reservation & user files.</p> <p>Initialize system components and starts UI</p> <p>Save data and exit</p>	UI, UserStore, ReservationStore, Plane
UI	<p>Display menus and handle user input/output.</p> <p>Manage user sign-up, sign-in, reservation, cancellation, and admin options.</p> <p>Coordinate actions between user and system classes.</p>	ReservationStore, UserStore, Plane, User
UserStore	<p>Manage user accounts (sign up & authenticate).</p> <p>Load and save users to file.</p> <p>Ensure default admin account exists.</p>	user
ReservationStore	<ul style="list-style-type: none"> • Manage reservations (reserve, cancel, manifest). • Load and save 	Plane, Seat, UserStore, SeatId, SeatClass

	<p>reservation data to file.</p> <ul style="list-style-type: none"> • Provide user seat lists and flight manifest. 	
Plane	<p>Build complete seat layout (rows and seat classes).</p> <p>Validate seat IDs and return seat objects.</p> <p>Provide availability grouped by class and row.</p>	Seat, SeatId, SeatClass
Seat	<ul style="list-style-type: none"> • Represent a single seat (id, class, reserved flag). • Track who reserved the seat. 	SeatId, SeatClass
SeatId	<ul style="list-style-type: none"> • Identify a seat (row and column). • Provide equality, sorting, and normalization utilities. 	Seat, ReservationStore, Plane
User	<ul style="list-style-type: none"> • Store user credentials, name, and admin role. 	UserStore, ReservationStore

