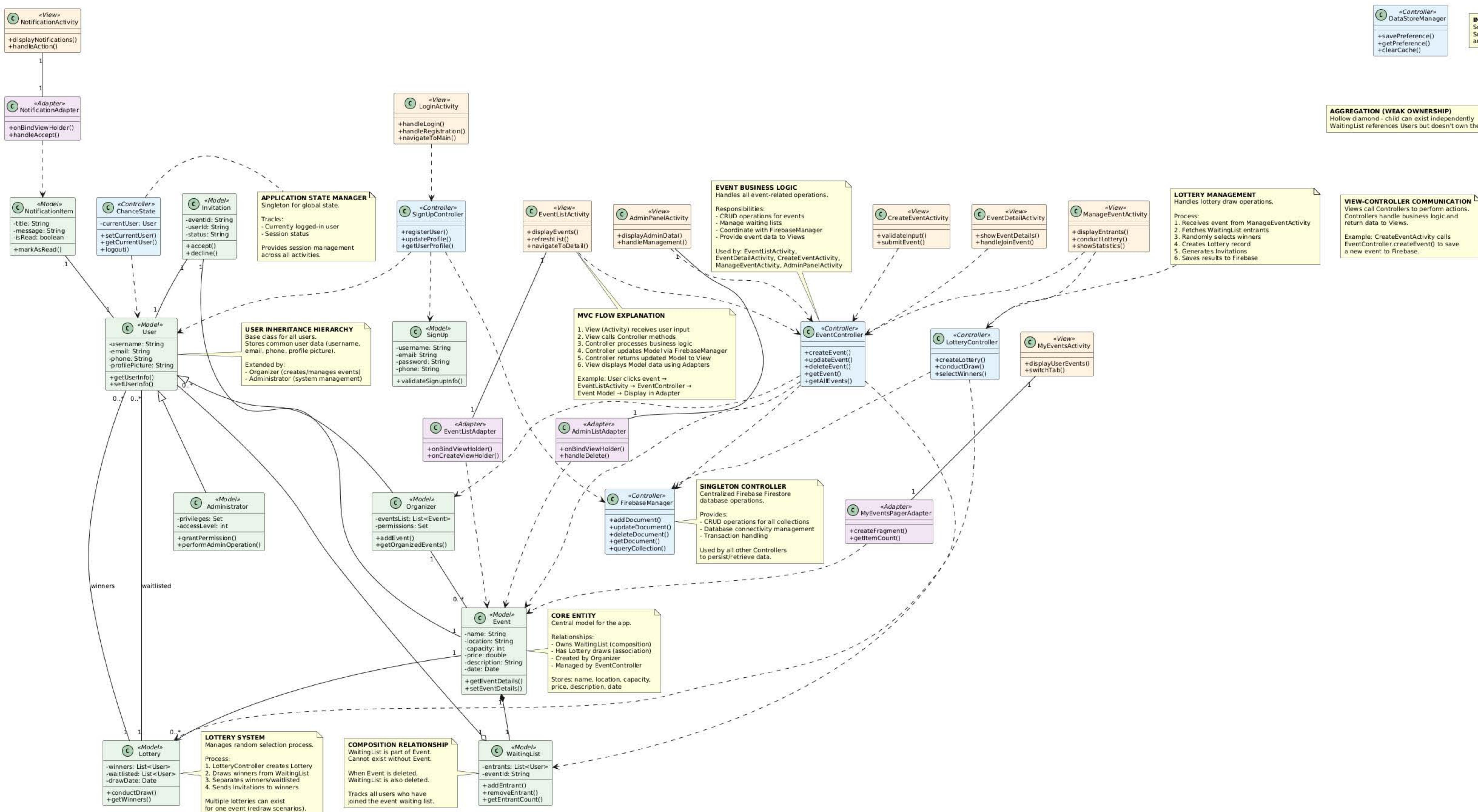


Chance App - UML Class Diagram



Type	Color	Purpose
Model	Green	Data & Business Objects
Controller	Blue	Business Logic & Data Management
View	Orange	User Interface (Activities)
Adapter	Purple	RecyclerView List Display

Relationship Types:

- <-- = Inheritance (IS-A relationship)
- = Composition (Strong ownership, lifecycle dependent)
- o-- = Aggregation (Weak ownership, independent lifecycle)
- = Association (Objects know about each other)
- ..> = Dependency (Temporary usage relationship)

Key Design Patterns:

- MVC (Model-View-Controller) for separation of concerns
- Singleton (FirebaseManager, ChanceState) for global access
- Adapter Pattern (RecyclerView display) for list views
- Repository Pattern (Controllers) for data operations

Data Flow:

View → Controller → FirebaseManager → Firebase Database
 Firebase Database → FirebaseManager → Controller → Model → View