Framework/Design Pattern Checklist

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| **Design Pattern** | **Membership**  **Framework**  **(Huynh Truong)** | **Page Navigation**  **Framework**  **(Quan Yang)** | **Data Access**  **Framework**  **(Yu Zhou)** | **Recommendation**  **Framework**  **(Yu Zhou)** |
| Singleton |  | **√** |  |  |
| Prototype |  |  |  |  |
| Factory Method |  | **√** |  |  |
| Builder |  |  |  |  |
| Abstract Factory |  | **√** |  |  |
| Adapter |  |  |  |  |
| Composite |  | **√** |  |  |
| Façade |  |  |  |  |
| Bridge |  |  |  |  |
| Flyweight |  |  |  |  |
| Proxy |  |  |  |  |
| Decorator |  |  |  |  |
| Chain of Responsibility |  |  |  |  |
| Command |  |  |  |  |
| Strategy |  |  |  |  |
| Iterator |  |  |  |  |
| Template Method |  |  |  |  |
| Mediator |  | **√** |  |  |
| Observer |  |  |  |  |
| Memento |  |  |  |  |
| State |  |  |  |  |
| Interpreter |  |  |  |  |
| Visitor |  |  |  |  |