App & Framework/Design Pattern Checklist

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| **Design**  **Pattern** | **Huynh Truong** | | **Quan Yang** | | **Yu Zhou** | |
| **Application:**  **SignUp/Login/Purchase/Payment** | **Membership**  **Framework** | **Application:**  **Product Management/GUI Navigation** | **Page Navigation**  **Framework** | **Data Access**  **Framework** | **Recommendation**  **Framework** |
| Singleton | **√** | **√** | **√** | **√** | **√** | **√** |
| Prototype |  |  |  |  |  |  |
| Factory  Method |  | **√** |  | **√** | **√** |  |
| Builder |  | **√** | **√** |  | **√** |  |
| Abstract  Factory |  | **√** |  | **√** |  |  |
| Adapter |  |  |  |  |  | **√** |
| Composite |  |  |  | **√** |  |  |
| Façade |  | **√** | **√** | **√** | **√** |  |
| Bridge |  |  | **√** | **√** |  |  |
| Flyweight |  |  |  |  | **√** |  |
| Proxy |  | **√** |  | **√** |  |  |
| Decorator |  |  |  |  |  | **√** |
| CoR | **√** | **√** |  |  |  |  |
| Command |  |  |  |  |  |  |
| Strategy |  | **√** |  |  | **√** | **√** |
| Iterator |  |  |  |  |  |  |
| Template  Method |  | **√** |  | **√** |  | **√** |
| Mediator |  |  |  | **√** |  |  |
| Observer |  |  |  |  |  | **√** |
| Memento |  |  |  |  |  |  |
| State |  |  |  | **√** |  |  |
| Interpreter |  | **√** |  |  |  |  |
| Visitor |  |  |  |  |  |  |