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| **TempData** | **Session** |
| TempData allow us to persisting data for the duration of single subsequent request. | Session is able to store data much more long time, until user session is not expire. |
| ASP.net MVC will automatically expire the value of tempdata once consecutive request returned the result (it means, it alive only till the target view is fully loaded). | Session will be expire after the session time out occurred. |
| It valid for only current and subsequent request only | It valid for all requests. |
| It is used to stored only one time messages like validation messages, error messages etc. | It is used to stored long life data like user id, role id etc. which required throughout user session. |
| TempData and session, both required typecasting for getting data and check for null values to avoid run time exception. | |