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ASP .NET Life Cycle

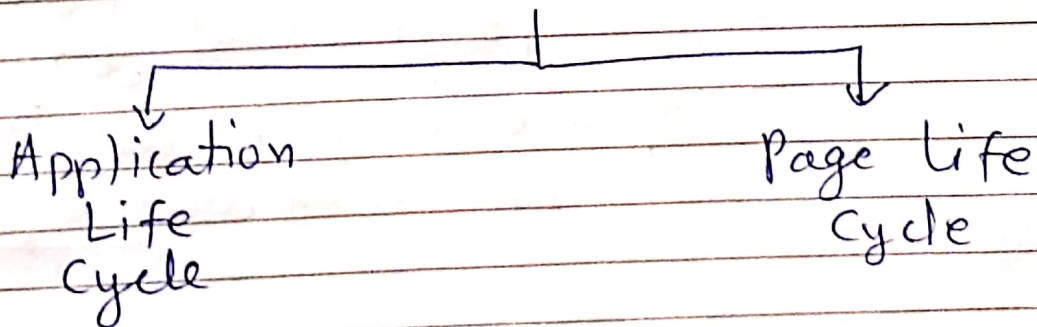
— Life cycle ~~of~~ ASP .NET द्वारा user request के सम्पूर्ण क्रियाचक्र को दर्शाता है।

? कैसे ASP .NET page को process करता है?

? कैसे application और pages को instantiate and process किया जाता है?

? कैसे ASP .NET द्वारा pages को dynamically process किया जाता है?

ASP .NET Life Cycle



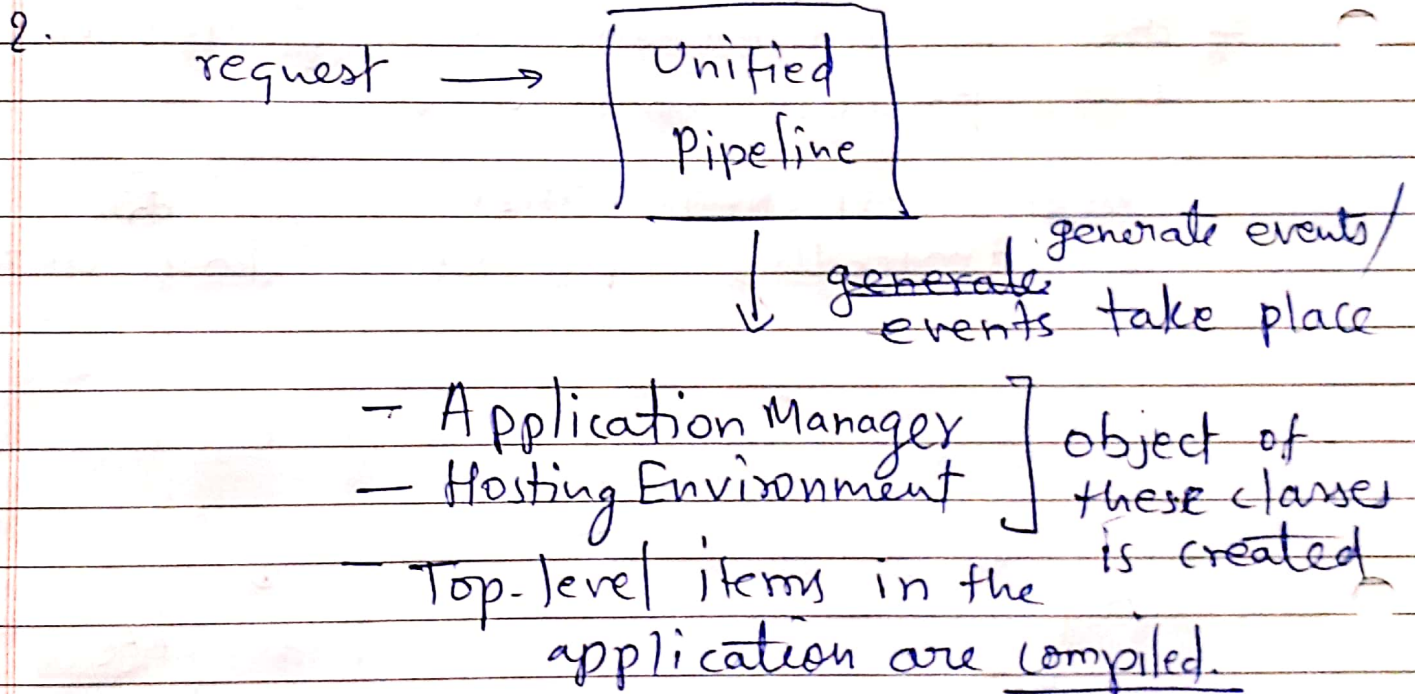
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ASP .NET Application Life Cycle

1. User makes a request to access application resource (page)
Browser send request to Web Server (IIS)



- 3) Response objects are created & initialized
HttpContext, HttpRequest, HttpResponse
- 4) HttpApplication object created and assigned to request.
- 5) Request is processed by HttpApplication object.

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ASP .NET Page Life Cycle

- when page requested → page is loaded in server memory
- methods & events take place {
 - Page is processed
 - page is sent to browser
 - Unload page

↓
Can be overridden
(you can replace default code with your own code)

- Page Class — create hierarchical tree of all the controls on the page
— (controls tree)

- directives are not ~~page~~ part of the controls tree.

- to see controls tree add trace = "true" to page directive.

Page Life cycle

- initialization
 - ↓
- instantiation of controls on page
- Restoration & maintenance of state
- execution of the event handler codes
- page rendering

Stages - page request - whether to, parse/compile page ...

— starting of page life cycle
Request & Response objects are set

request = old request / post back

↓
UI Culture (property of page) is set. Is Post Back

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- page initialization — controls are assigned unique ID
(UniqueID property is set)
— theme is applied

- — Page Load — Controls properties are set
- Validation — IsValid property
- Postback event handling — postback (old request)
related event handler is called
- — Page rendering — state is saved
— Render() is called for each component
— o/p of rendering is written to Output Stream
- Unload

Events

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PreInit - OnPreInit() method
Page-PreInit handler

Init - OnInit() method
Page-Init handler

Init Complete - ~~Init~~ allow
tracking of view
state

Load ViewState -

Load Post Data - form data is
processed

Pre Load - post back data in controls

Load - first for page
and then for all controls
(recursively)

Load Complete - OnLoadComplete()
Page-LoadComplete handler

Pre Render -

Pre Render Complete -

save state complete - Render() / Page-Render

Unload - OnUnload(), Page-Unload
handler