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Kelas : C

Mata Kuliah : Analisis dan Desain Sistem

Dosen Pengampu : Dr. Totok Dewayanto, S.E., M.Si., Akt.

PERTEMUAN I

Selasa, 20 Agustus 2024

RPS Mata Kuliah Analisis dan Desain Sistem

Mata Kuliah : Analisis dan Desain Sistem

Jumlah Pertemuan: 16 Pertemuan (14 KBM, 1 UTS,1 UAS)

Durasi : (180 menit per pertemuan)

Tugas Akhir : Proyek Membuat Prototipe Sistem

Minggu	Topik		Subtopik	Aplikasi	Rekomendasi	Tugas
				yang	Buku	
				Digunakan		
1	Pengenalan	•	Pengantar	PowerPoint	Kendall &	Tugas 1:
	Analisis dan		Sistem dan		Kendall (2019) -	Ringkasan
	Desain Sistem		Analisis		Systems Analysis	peran analisis
			Desain Sistem		and Design	sistem
2	Siklus Hidup	•	Pengenalan	Lucidchart,	Whitten &	Tugas 2:
	Pengembangan		SDLC dan	Microsoft	Bentley (2007) -	Membuat
	Sistem		Metodologi	Word	Systems Analysis	diagram
	(SDLC)		Pengembangan		and Design	SDLC
			Sistem		Methods	
3	Pengumpulan	•	Teknik	Microsoft	Robertson &	Tugas 3:
	Kebutuhan		Pengumpulan	Word,	Robertson	Membuat
			Data:	Google	(2012) -	kuesioner
			Wawancara,	Forms	Mastering the	sederhana
			Kuesioner,		Requirements	
			Observasi		Process	

4	Analisis	•	Analisis	Microsoft	Dennis, Wixom,	Tugas 4:
	Kebutuhan		Kebutuhan	Excel	& Tegarden	Dokumen
			Fungsional		(2015) - Systems	kebutuhan
			dan Non-		Analysis and	sistem
			Fungsional		Design with	
					UML	
5	Pemodelan	•	Pengenalan	StarUML	Fowler (2004) -	Tugas 5:
	Sistem dengan		UML: Use		UML Distilled	Membuat Use
	UML		Case Diagram			Case Diagram
6	Pemodelan	•	Activity	StarUML	Dennis, Wixom,	Tugas 6:
	Sistem dengan		Diagram,		& Tegarden	Membuat
	UML		Sequence		(2015) - Systems	Activity
	(Lanjutan)		Diagram		Analysis and	Diagram
					Design with	
					UML	
7	Desain	•	Desain	Lucidchart,	Bass, Clements,	Tugas 7:
	Arsitektur		Arsitektur:	Draw.io	& Kazman	Diagram
	Sistem		Client-Server,		(2012) - Software	arsitektur
			Layered		Architecture in	sistem
			Architecture		Practice	
8	UTS	•	Ujian Tengah	-	-	-
			Semester			
9	Desain	•	Desain	MySQL	Connolly &	Tugas 8:
	Database		Database:	Workbench,	Begg (2015) -	Membuat
			ERD,	Lucidchart	Database	ERD
			Normalisasi		Systems: A	
					Practical	
					Approach to	
					Design,	
					Implementation,	
					and Management	

10	Desain	•	Prinsip UI/UX,	Figma,	Cooper,	Tugas 9:
	Antarmuka		Wireframing,	Adobe XD	Reimann, &	Membuat
	Pengguna		Mockup		Cronin (2014) -	mockup
	(UI/UX)				About Face: The	antarmuka
					Essentials of	
					Interaction	
					Design	
11	Desain Logika	•	Desain Logika	Visual	Rumbaugh,	Tugas 10:
	Sistem		Bisnis dan	Paradigm,	Jacobson, &	Diagram alur
			Alur Proses	Lucidchart	Booch (2005) -	proses
					The Unified	
					Modeling	
					Language	
					Reference	
					Manual	
12	Pemilihan	•	Pemilihan	Visual	Fowler (2004) -	Tugas 11:
	Teknologi		Teknologi	Studio	Patterns of	Rencana
			untuk	Code,	Enterprise	teknologi
			Pengembangan	GitHub	Application	
			Sistem:		Architecture	
			Backend,			
			Frontend			
13	Pengujian	•	Pengujian	Selenium,	Myers, Sandler,	Tugas 12:
	Sistem		Unit, Integrasi,	JUnit	& Badgett	Rencana
			dan Sistem		(2011) - The Art	pengujian
					of Software	sistem
					Testing	
14	Implementasi	•	Strategi	Docker,	Pressman &	Tugas 13:
	dan		Implementasi,	AWS,	Maxim (2014) -	Deployment
	Deployment		Deployment,	GitHub	Software	aplikasi
			dan		Engineering: A	
			Pemeliharaan		Practitioner's	
			Sistem		Approach	

15	Proyek	•	Pembuatan	PowerPoint,	-	Tugas Akhir:
	Prototipe		dan Presentasi	Figma,		Prototipe
			Prototipe	StarUML		Sistem
			Sistem			
16	UAS	•	Ujian Akhir	-	-	-
			Semester			

Buku Referensi:

- 1. **Systems Analysis and Design** Kendall & Kendall (2019)
- 2. Systems Analysis and Design Methods Whitten & Bentley (2007)
- 3. Mastering the Requirements Process Robertson & Robertson (2012)
- 4. **UML Distilled** Martin Fowler (2004)
- 5. Systems Analysis and Design with UML Dennis, Wixom, & Tegarden (2015)
- 6. **Software Architecture in Practice** Bass, Clements, & Kazman (2012)
- 7. Database Systems: A Practical Approach to Design, Implementation, and Management Connolly & Begg (2015)
- 8. **About Face: The Essentials of Interaction Design** Cooper, Reimann, & Cronin (2014)
- 9. **The Unified Modeling Language Reference Manual** Rumbaugh, Jacobson, & Booch (2005)
- 10. **Patterns of Enterprise Application Architecture** Martin Fowler (2004)
- 11. **The Art of Software Testing** Myers, Sandler, & Badgett (2011)
- 12. **Software Engineering: A Practitioner's Approach** Pressman & Maxim (2014)