Provisioning of a 5G Stand-Alone system using Open5GS

Team: Bob Com
Lead: Gurunag Sai Udaykumar

Project Start:	Wed, 12/14/2022	
Today:	Tue, 1/17/2023	
Display Week:	7	

Timeline: Jan 23, 2023 – Mar 13, 2023

TASK	ASSIGNED TO	PROGRESS	START	END
Phase 1: Planning and Research Survey				
Mobile Wireless Communication Technology Journey(0G, 1G, 2G, 3G, 4G, 5G)	Chinmaya Nithin	100%	12/14/22	12/16/22
Research about Open5GS, Network Slicing, SBI, srsRAN	Harish	100%	12/15/22	12/20/22
Interpretation and Analysis on Terminologies (Network slicing, VNF, NF srsRAN, SA, NSA etc)	Gurunag Sai	100%	12/14/22	12/17/22
Difference between SA vs NSA	Chinmaya Nithin	100%	12/17/22	12/21/22
WINTER HOLIDAYS			12/24/22	1/3/23
Phase 2: 5G SA Architechture, Analysis and Tools				
Design of 5G SA Architechture	Chinmaya Nithin	100%	1/4/23	1/12/23
Specifications of CPF and UPF	Harish	100%	1/5/23	1/12/23
VM Initialisation and Tools Installation (Open5GC, srsRAN etc)	Gurunag Sai	100%	1/5/23	1/13/23
Phase 3: Configuration and Implementation of Network Frameworks				
Installing open5gs and confirguring 5GC Components	Gurunag Sai	100%	1/13/23	1/18/23
Installing srsRAN and connecting to 5GC	Harish	100%	1/18/23	1/31/23
Connecting to Data Network & Testing	Chinmaya Nithin	100%	1/31/23	2/6/23
Phase 4: Implementation of Open5gs-5GC- UERANISM				
Initializing different VMs for specific components 1. Open5gs - Control Plane 2. UPF - Uplane 1 3. UPF - Uplane 2 4. UE/GNB	Gurunag Sai	100%	2/7/23	2/9/23
Configuring AMF,SMF of VM1 Configuring UPF1,UPF2	Harish	100%	2/9/23	2/11/23
Configuring UE and GNB	Nithin	100%	2/10/23	2/11/23
Connecting Open5gs - Control Plane to UPF1 and UPF2	Gurunag Sai	100%	2/12/23	2/15/23
Connecting UE/RAN to Open5gs	Harish	100%	2/12/23	2/20/23
Implementation for Service Functionality: 1. File Sharing Platform 2. Streaming Platform 3. SIP call Server	Nithin	73%	2/15/23	2/22/23
Testing and Refactoring	All	100%	1/11/23	2/22/23
Phase 5: Testing, Refactoring and Deployment				
Final Testing and Refactoring	All	100%	2/22/23	2/23/23
Phase 6: Documentation				
Report .pdf/.docx	All	100%	2/21/23	2/28/23
Presentation .ppt	All	100%	2/21/23	2/28/23
Presentaion Video .mp4	All	100%	2/27/23	2/28/23

			Display Week:	7	Jan 23, 2023	Jan 30, 2023	Feb 6, 2023	Feb 13, 2023	Feb 20, 2023	Feb 27, 2023	Mar 6, 2023	Mar 13, 2023
TASK	ASSIGNED TO	PROGRESS	START	END	23 24 25 26 27 28 29 M T W T F S S	30 31 1 2 3 4 5 M T W T F S S	6 7 8 9 10 11 12 M T W T F S S	13 14 15 16 17 18 19 M T W T F S S	20 21 22 23 24 25 26 M T W T F S S	27 28 1 2 3 4 5 M T W T F S S	6 7 8 9 10 11 12 M T W T F S S	13 14 15 16 17 18 19 M T W T F S S
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