



SNS COLLEGE OF ENGINEERING

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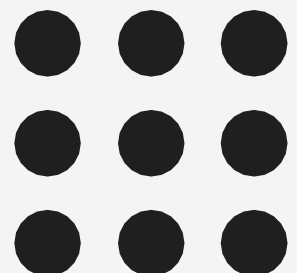
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Department of Information Technology

Course Name – Software Engineering

Software Requirements Documents





SOFTWARE REQUIREMENT SPECIFICATIONS



- Official statement of what the system developers should implement
- It includes both **user requirements** for a system & a detailed specifications of the **system requirement**
- SRS – document that completely describes what the **proposed software should do** without describing hardware software will do it.



ADVANTAGES



- A SRS provides a **reference for validation of the final product**
- A high quality SRS is a **prerequisite to high quality software**
- A high quality SRS **reduces the development cost**



Characteristics of SRS



- Correctness – what specified is done correctly
- Completeness – everything is indeed specified
- Unambiguous – if & only if every requirement stated has one & only one interpretation
- Verifiable – if & only if every stated requirement is verifiable
- Consistent – If there is no requirement that conflicts with another
- Ranked for Importance & Stability – reflects chances of changing in future



Characteristics of SRS



- Traceable – If origin of each of its requirements is clear
- Forward Traceability – each requirement should be traceable to some design and code elements
- Backward Traceability – trace design & code elements to requirements
- Modifiable – if and only if its structure & style are that any changes to the requirements can be made easily, completely & consistently while retaining the structure and style

Users of a requirements document

