## MODULE 2

 Week
 July

 Monday
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 Tuesday
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# Blaboration -		
8.00 The primary purpose of this phase 8.30 parks of project that are high ris 9.00 risk factors are addressed to estable 9.30 architecture. Processes undertaken	the and plan construction plan blish and validate the syst	se. Common em
10.00 of use case diagrams, conceptual a 10.30 diagrams.	diagrams (class diagrams) and	package
The architecture is validated primain 12.00 an executable architecture baseline.  12.30 system architecture must have stabilished baseline must demonstrate that are stabilished baseline must demonstrate that are 13.30 functionality and exhibit the right scalibility and was.	by the end of elaboration for the architecture will support key	shase the ture
14.30		******************
14.30	phase is a plan including a phase.	ost and
15.00 The final deliverable of elaboration of schedule estimates for construction (6.00	phose is a plan including a phose.	ost and
15.00 The final deliverable of elaboration of schedule estimates for construction 16.00  Steps taken during this phase —		
15.00 The final deliverable of elaboration of schedule estimates for construction 16.00  16.30 Steps taken during this phase -  17.00 — Complete project plan with item 17.30 — rank use case by priority of the schedule project plan with item 17.30 — rank use case by priority of the schedule project plan with item 17.30 — rank use case by priority of the schedule project plan with item 17.30 — rank use case by priority of the schedule estimates of elaboration of the schedule estimates for construction of the schedule estimates for constr		s define
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	· Elaboration Artifacts -
8.00	domain model: a visualization of domain concepts and entities. It is a
8.30	no. of class diagrams describing the classes in the hard
9.00	no. of class diagrams describing the classes in the problem domain.
9.30	It is an attempt to understand the problem domain by categorizing its element.
10,30	<b>→</b> 10
11.00	design model: it is a visualization of structure of the software to be created. It often includes
11.30	· class diagrams - descriping along
12.00	· Class diagrams - describing classes used to implement software, and their relationships.
12.30	· Seguence disamme and allet alle
13.00	· Sequence diagrams and collaboration diagrams - describing problem solving process.
13.30	James Contract Contra
14.00	· Statechast diagrams - Showing how objects evolve for change
	Clata) and 10
[4.30	state) over time.
14.30 15.00	- une
	-> Into model: Database schemes including object to relational
15.00	→ Data model: Database schemes, including object to relational database mapping.  SUNDAY 10
15.00	→ Data model: Database schemes, including object to relational database mapping.  SUNDAY 10
15.00	→ Data model: Database schemes, including object to relational dotabase mapping.  SUNDAY 10  Outcomes of Plaboration phase -
15.00	→ Data model: Database schemes, including object to relational database mapping.  SUNDAY 10  Out comes of Plaboration phase -  — detailed Software plan
15.00	→ Data model: Database schemes, including object to relational database mapping.  SUNDAY 10  Outcomes of Plaboration phase defailed software plan - Updated risk management
15.00	Data model: Database schemes, including object to relational database mapping.  SUNDAY 10  Outcomes of Elaboration phase—  - detailed software plan  - Updated nisk management  - Management & Staffing plan
15.00	Data model: Database schemes, including object to relational database mapping.  Sunday 10  Outcomes of Plaboration phase -  - detailed software plan  - Updated risk management  - Management & Staffing plan  - A test plan
15.00	Data model: Database schemes, including object to relational database mapping.  SUNDAY 10  Out comes of Blaboration phase -  - detailed software plan  - Updated risk management  - Management & Staffing plan  - A test plan  - A baseline Vision
15.00	→ Deta model: Database schemes, including object to relational database mapping.  Sunday 10  Out comes of Elaboration phase -  - detailed software plan  - Updated risk management  - Management & Staffing plan  - A test plan  - A baseline vision  - Domain analysis model
15.00	Data model: Database schemes, including object to relational database mapping.  SUNDAY 10  Out comes of Plaboration phase -  - detailed software plan  - Updated risk management  - Management & Staffing plan  - A test plan  - A haseline vision  Domain analysis model  - Software architecture description stating constraints &
15.00	→ Data model: Database schemes, including object to relational  database mapping.  SUNDAY 10  Outcomes of Elaboration phase -  detailed software plan  - Updated risk management  - Management & Staffing plan  - A test plan  - A haseline vision  Domain analysis model  - Software architecture description stating constraints &  Limitation Things To Do  Important Calls
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# Conceptual Classes -

it is defined as an idea, thing, or object. More formally, it may be considered in terms of its symbols, intension, and extension.

## -> Strategies to find conceptual classes -

- 1. Reuse or modify existing models Published, well-crafted domain & data models are modified into domain models.
- 2. Use a category list A standard category conceptual class category table is used to create a cist of candidate conceptual class which promots creation of domain model.
- 3. Identify Noun Phrases identify the nouns and noun phrases
  In textual descriptions of a domain, and consider them as
  candidate conceptual classes.

Description classes -

it is defined as information that describes something else. For eg', a product description that records the price, picture, and text description of an item.

# Domain Model Refinement -

- is a process of refining the domain model with generalizations, specializations, associations classes, time intervals, composition & packages; conceptual class hierarchies, etc.
  - In generalization process, the common characteristics of classes

    are combined to form a class in a higher level of hierarchy,

    i.e. subclasses are combined to form super class. specialization

    is reverse process of generalization.

than subclass, i.e. all members of subclass must be members of subclass or abstract conceptual class (if every members of subclass or abstract conceptual class (if every members of class C is also member of same subclass).  If a class C can simultaneously have many values for the same kind of attribute A, weate an association class with that attribute and associate it with C.  It define aggregation or composition by defining relationship among classes.  Include packages and group elements by subject aska, in same himsurday, or in same use case on elements who have strong associations.  It defines the relationship between two or more classes in the system. These generally relates to the one object having instance or reference of anothers.  In UML  Associations, are implemented in 3 ways:  Mulliplicity: It indicates the no. of instance of one class is linked to one instance of another class. (		
members of superclass), or subclass must be members of subclass or abstract conceptual class (if every member of class G is also member of same subclass)  1838 — If a class G can simultaneously have many values for the same kind of attribute A, create an association class with that attribute and associate it with G.  — define aggregation or composition by defining relationship among classes.  1200 — Include packages and group elements by subject aska, in same hirarchy, or in same use case on elements who have strong associations.  1200 ** Associations*  1210 ** Associ	8.00	- By defining superclass ( a conceptual superclass is more agreed
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parent & child. It implies a netationship where child can exist independently of the parent. It is "hose-a" relationship	Acetings	have their own lifecuele hat Important Calls
exist independently of the parent. It is "has -a" relationship		parent & child. It molies
parent. It is has -a relationshi		exist independently of the netationship where child can
		of the parent. It is "has -a" relationship

3) composition: U is a special form of association. It is a strong type of aggregation. Here, the parent & child objects have co-incident lifetimes. Child object does not have its own lifecycle & if parent opts deleted, then all of its child object also gets deleted.

ASSOCIATIO	N	AGGREGATION	COMPOSITION.
it is denoted by		it is denoted by ->	it is denoted by -
it can exist byn more classes in	two or	its past of association relationship	us part of association relationship.
there can be one-on many-many associant blw classes	ation	it is considered ess weak type of association	it is strong type of association SUNDAY 17
yrec			
me or more object associated with	ts can be each other.	Objects that are associated with each other can remain scope of system without each other.	objects that are associated in with each other cannot remain in scope without each other.
but or more object associated with	ts am be with	in scope of system without	t remain in scope without

## 18 Week 29 July Monday (200-166)

Week July
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6) Deleting one element beloting one element does Deleting one element may or may not not affect another affects another associate affect another associated associated element. element. element Deg: A teacher is associ A cour needs a wheel but A tile is placed inside -afed with multiple does not need the very the folder, of tolder is Students, or a teacher Same wheel, it can function deleted, all the files provides instruction to adequately with another contained within are also 12.30 the students. wheel. gone. # ATTRIBUTES it is a logical data value of an object - In UML, they are shown in second component of class box. After butter and its data type must be simple. cashier · Derived Attributes -A quantity that can be calculated from other values, such as role multiplicaties, is a derived attribute, designed in UML by leading slash symbol. SalesLineDem Timberont Calls

records sales of

from the multiplicity value.

pursday Friday Saturday	1 12 19 27 2016 July 1 19 201-165) Tuesday 1 9 19 19 19 19 19 19 19 19 19 19 19 19
Summer	
#	It is a behavioral diagram is
8,00	potrays the control flow from a start point to finish point showing the
\$.30	various decision parts that exist while the activity is being executed. It is
a 10	used to depict the discourse while the activity is being executed. It is
10.00	used to depict the dynamic aspects of the system.
10,30	· Notations -
11.00	1). Initial State - the elect
11.30	J. Initial State - the starting state before an activity takes place is deputed using the initial state. It is leaded to
12.00	depicted using the initial state. It is denoted by a black filled
12,30	
13.00	2) Action or activity atota
13,30	2) Action or activity state—it represents execution of actions on objects or by objects. It is represented using a set of actions on objects or
14.00	is a rectangle with rounded corner
14.30	Activity.)
15.00	
15.30	3) Action flow or control How - 4000
16.00	3) Action flow or control flow - they are also known as paths & edges.
16.30	they are used to show the transition from one activity state to
17.00	
17.30	4) Decision node & Branching - when we need to make a decision
18.00	before deciding the flow of control, we use decision node
Evenir	6 \ 2
	⟨endibio⟩ →
Meet	linde
	✓ Things To Do ✓ Important Calls ✓

The second secon	
Swimlanes - it groups related ac	tivities into one column or one took.
They are used to add modular	ity to the activity diagram. It's similar
- exating a function in a	
A STATE OF THE PARTY OF THE PAR	
snimlane snimlane	
10.00	The state of the s
De Grant - Like con house a se	when some times some time
11.00 10) Time Event - We can have a so	renario where an event takes some time
130 to complete. We use an hor	urglass to represent time event.
1100	
1250 (1) Final State or End State - its the	state which the system reaches when
13.00 a pasticular process or activity e	ndo. It is denoted by filled circle
1330 within a circle	The second secon
14.00	
1430 -> Uses of activity diagram?	
15.00 · dynamic modelling of 4	the system or process
1530 · illustrates vanious ste	yps involved in UML use case
16.00 model software element	s like methods, operations & functions
1630 • to depict concurrent	activities easily.
17.00 . Show constraints, condition	tion and logic behind algos.
17.30 WATER TURBO 200	in trasilation (4)
18.00 # USE CASE DIAGRAM	ACTIVITY DIAGRAM
Evening	
i) is a model that represents the	it a model that represents the
user's interoction with the system	
was made and system	in a system similar to flowchare.
Menages / Things To Do	✓ Important Calls ✓
and the same of th	Helps to model the workflow of
2) Helps to model the system, user	the system.
interactions.	

SERVENCE DIAGRAM	
8.30	Acriviny Diagram
calls in a system that is used to perform a specific functionality.	of the system.
shows the mag thow from one object to another.	shows the mag flow from one activity to another.
3)12.30 It is used for dynamic modelling	It is used for functional mode
4) 13-30 it is used to describe the behavior of several objects in single use case.	of actions for several objects & w
5)30 th is used to represent the time order of process	It is used to represent executions of process.
17.00  17# GENERALIZATION	
18.00 E94333ATO 4-20784	SPECIALIZATION
Drains to proceeds in bottom up manner  2) it reduces the size of schemas  3) it is applied on group of entities.  y) is extracts the common feature of Meetings multiple entities to form a new entity.  5) it results in forming a single entity from multiple entity.	top down manner increases the size of schemas. applied on single entity. It splits an entity to form multiple rew entities that inherit some feature of splitting entity it results in forming multiple entity from single entity.