

Staff Etiquette

Academics

- Record
 - Chatrooms
 - Live
 - Attendance
- Mute control
- Access control
- No anonymity
- Share personal information via screen shares

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Student Etiquette

Do's

- Behave as normal, be respectful
- No anonymity
- First and last names to identify you
- Kindness/Difficulty
- Be patient, some one may have technical issues
- Mute microphone, unless speaking
- Use chatroom appropriately
- Keep video on, especially when talking
- Tolerance

Don'ts

- Share personal information
- Try not to multi-task
- Behave inappropriately
- Bully other students
- Disruption
- No eating

Labs

- Complete exercise together
- All leave room
- Try exercise
- Have questions or queries
- Enter waiting room for 1-2-1

Deadlines



	Feedback				
Description	Submission	Weight	Deadline	Formative	Summative
Hyperledger	MyLearning	50%	14 th April 2023	LW11-12	10/05/2023
2. Ethereum	MyLearning	50%	8 th July 2023	LW23-24	28/07/2023
Resits	MyLearning	50-100%	14 th August 2023	None	None
Deferals	Mulasmina	EO 1009/	14 th August 2022	Mono	None

Coursework 1



• Problem Definition: 14% Data Modelling: 18%

Access Control Language: 16%

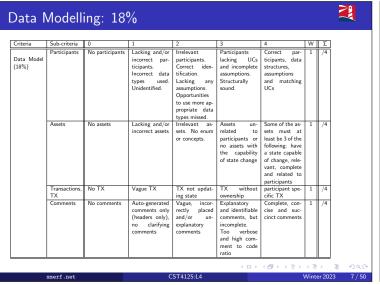
• Business Logic: 26 Documentation: 4% • Presentation: 20%

• Business Network Archive: 2% • Deadline: 14th April 2023

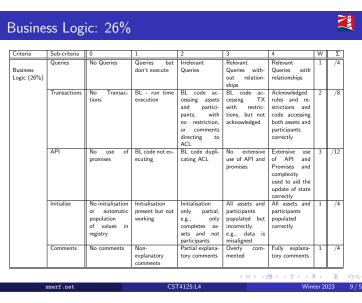
Problem Definition: 14%



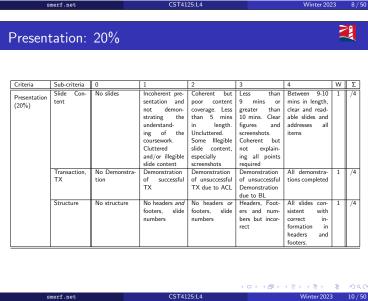
Criteria	Sub-criteria	0	1	2	3	4	W	Σ
Problem Definition, PD (14%)	Specification	No Spec.	Spec., present	Spec. is not conducive to BC	Unrelated or missing spec. components	Spec. con- ducive to BC, all components explained and coherent	1	/4
	Flowchart, FC	No use of FC in [5]	FC applied, no explanation.	All components of FC applied, some explana- tion.	All components of FC applied correctly but does not match spec/UCD.		1	/4
	Use Case Diagram, UCD.	No UCD	Incoherent UCD	Misaligned UCD and PD. Assumptions left uncom- mented	No include or extend re- lationships. Assumptions commented	Aligned and complete UCD with comments and assumptions	1	/4

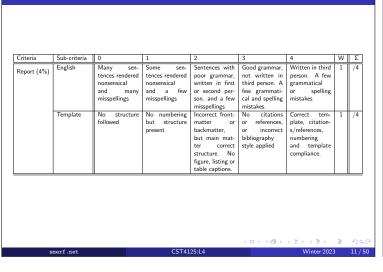


Access Control Language: 16% Access Control Language, ACL, (16%) No ACL. Basic ACL, admin access only & automatically ACL has few rules ACL has con-ACL order is in ACL tradictions or allows unauthoplemented rised access to transactions or generated code assets. There is no differ-ence between participant Rules are in correct order, but lack ideal No listing or basic ACL, ad-Syntax for ACL. disorganised and appropriate Comments and listing min access only & automatineed and names, descrip-tors values and re-ordering. names, descripcally generated tor values and commented out comments. No line numbers. Identifier conditions applied correctly rules Conditions Auto-g erated No condition Conditions and simple check status or lists and of a higher order of difficulty applied incor-rectly.

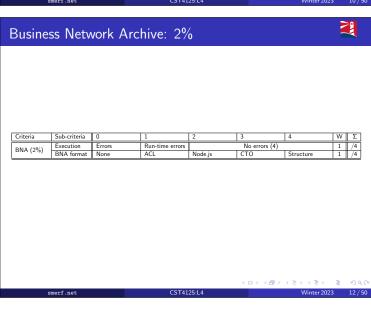


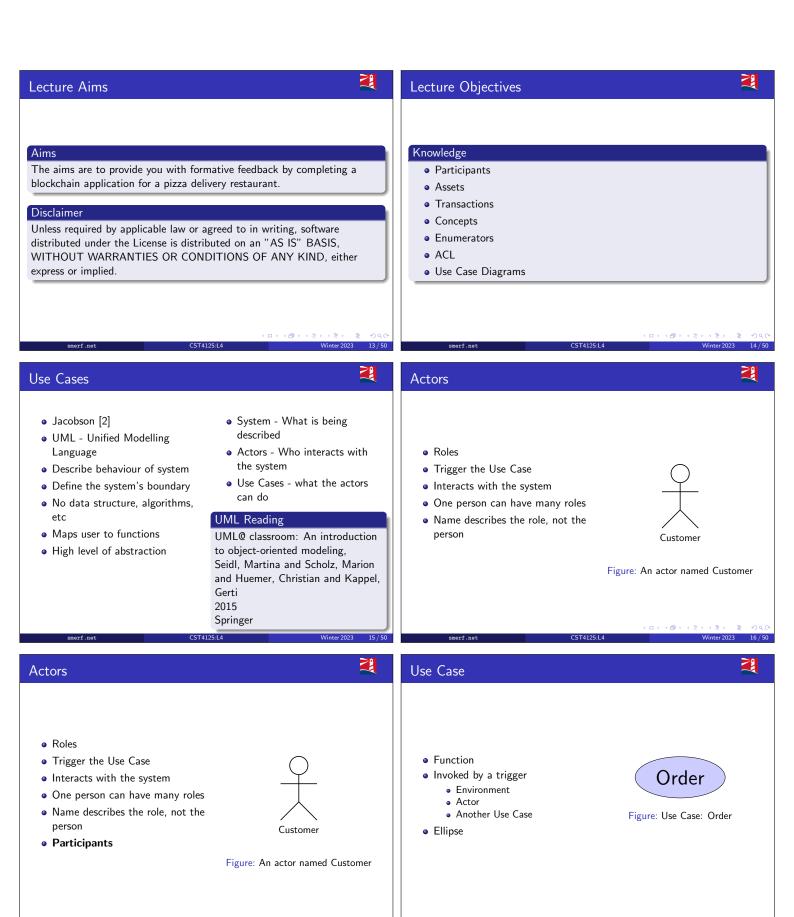
Documentation: 4%

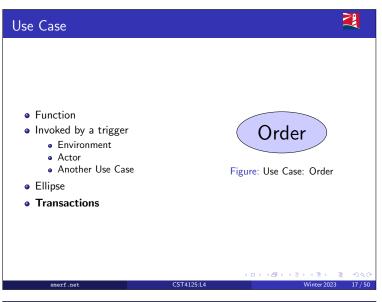


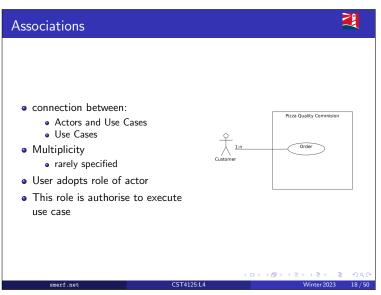


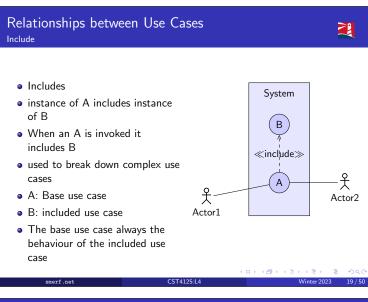
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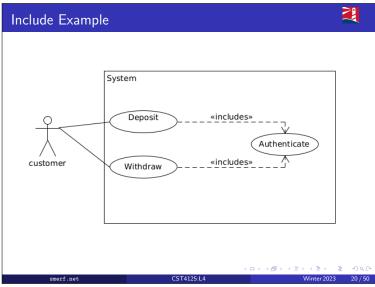


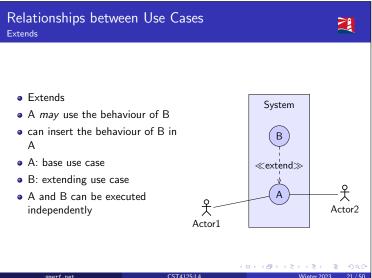


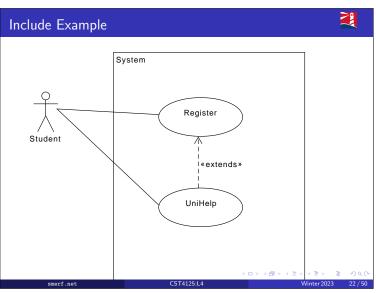


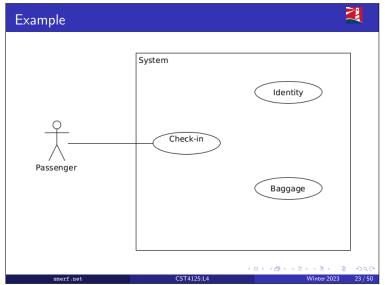


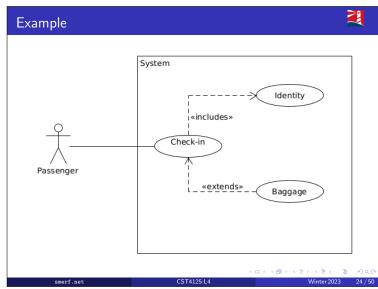


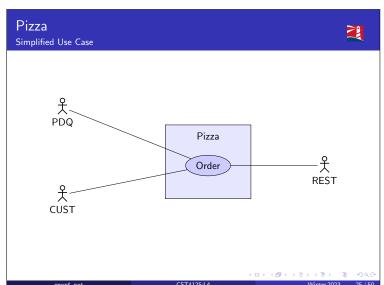


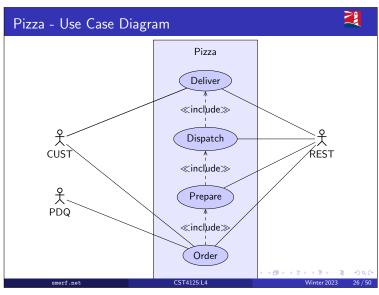


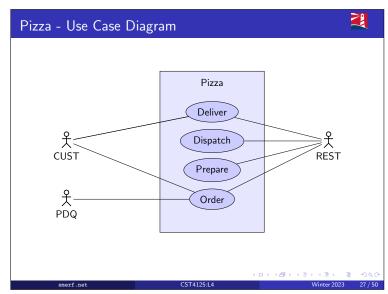


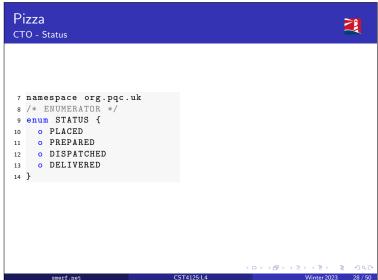


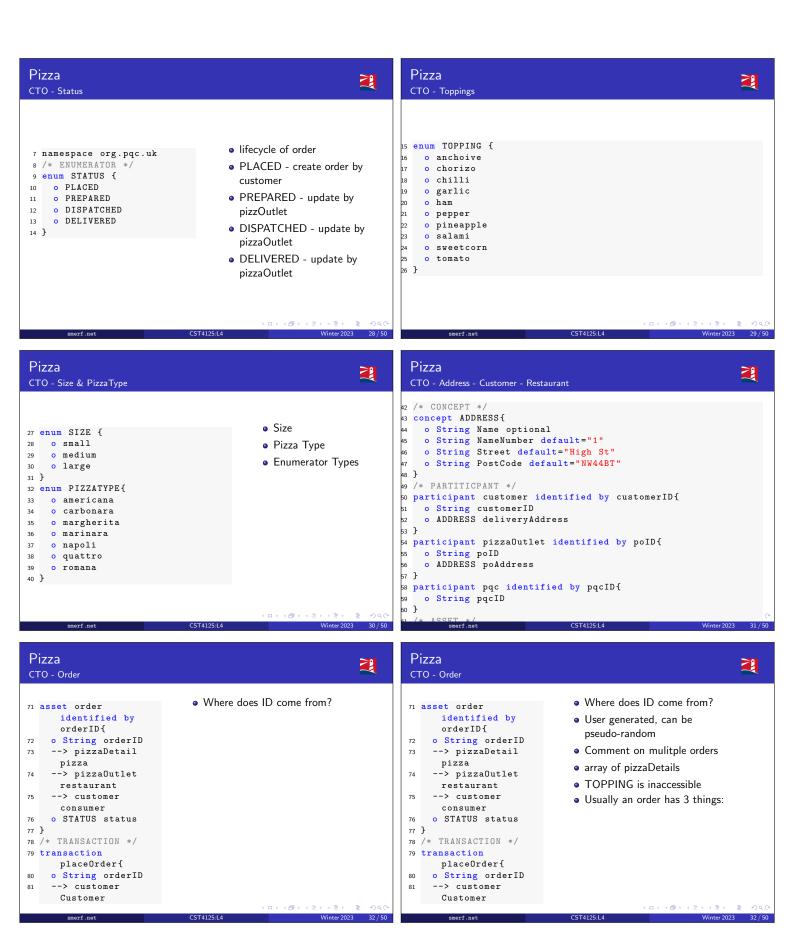


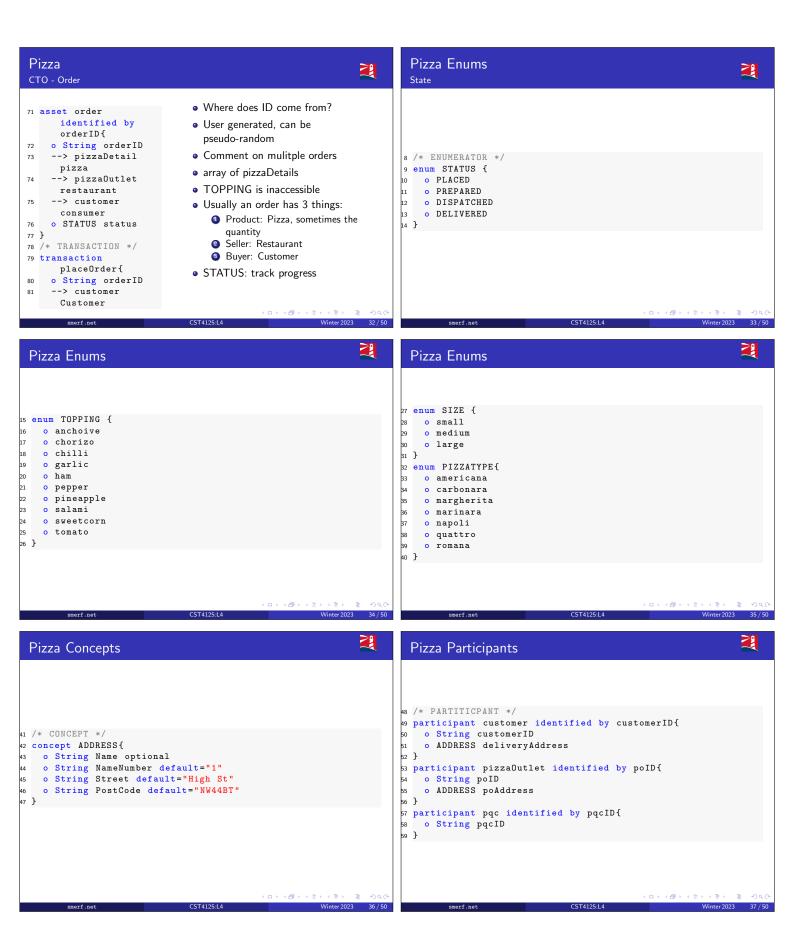














```
Rules
 ACL - Customer
                                        customerPlaceOrder:
49 rule customerPlaceOrder{
    description: "customer places order"
                                                     Only a customer
                                                     can place an order
    participant: "org.pqc.uk.
                                                     and access
      customer"
                                                    transaction
    operation: ALL
resource: "org.pqc.uk.
                                                    placeOrder
53
      placeOrder"
                                        customerReadRestaurant:
    action: ALLOW
                                                    Customers are
55 }
                                                     permitted to read
56 rule customerReadRestaurant{
    description: "customer has
                                                     pizzaOutlet details
      read access to restaurants
    participant: "org.pqc.uk.
      customer'
    operation: READ
    resource: "org.pqc.uk.
```

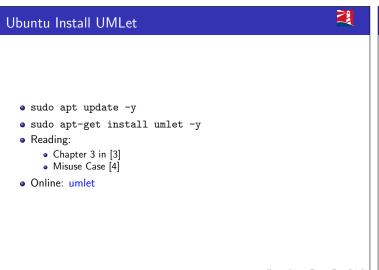
```
Rules
 ACL - Restaurant
                                      restaurantSeeSelf:
33 rule restaurantSeeSelf{
                                                  Restaurant can only
    description: "restaurants
      can only view their own
                                                  see themselves
      details"
                                      restaurant See Orders:\\
    participant(p): "org.pqc.uk.
      pizzaOutlet'
                                                  Restaurant can only
    operation: ALL
                                                  see orders placed at
    resource(r): "org.pqc.uk.
                                                  their pizzaOutlet
      pizzaOutlet"
    condition: (p.getIdentifier
      () == r.getIdentifier())
    action: ALLOW
40 }
41 rule restaurantSeeOrders{
42
    description: "restaurant can
      only see their own orders
    participant(p): "org.pqc.uk.
```

```
ACL - Restaurant
                                          restaurantReadsCustomer:
63 rule restaurantReadsCustomer{
                                                        restaurant can read
     description: "restaurant
      reads customer"
                                                        customer details
    participant: "org.pqc.uk.
  pizzaOutlet"
                                          restaurant Place Order:\\
                                                        Restaurants cannot
     operation: READ
    resource: "org.pqc.uk.
customer"
67
                                                        place orders, merely
                                                        read and update
68
     action: ALLOW
                                                        the status of them
69 }
                                          restaurant Process Order:\\
70 rule restaurantPlaceOrder{
    description: "restaurant
  reads order"
                                                        Restaurants can
                                                        process orders from
    participant: "org.pqc.uk.
  pizzaOutlet"
72
                                                        status PLACED to
     operation: READ, UPDATE//
                                                        PREPARED using
      CANNOT CREATE
                                                        transaction
     resource: "org.pqc.uk.order"
                                                        prepareOrder
```

2

Rules





[1] Nitin Gaur et al. Hands-on Blockchain with Hyperledger: Building Decentralised Applications with Hyperledger Fabric and Composer. Packt, 2018. ISBN: 9781788994521.

[2] Ivar Jacobson. Object-oriented software engineering: a use case driven approach. Addison-Wesley, 1992.

[3] Martina Seidl et al. *UML@ classroom: An introduction to object-oriented modeling.* Springer, 2015.

[4] Guttorm Sindre and Andreas L Opdahl. "Eliciting security requirements with misuse cases". In: Requirements engineering 10.1 (2005), pp. 34–44.

[5] Dylan Yaga et al. Blockchain technology overview. Tech. rep. National Institute of Standards and Technology, 2018.

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References

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