





Overview of today

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- 10 till 11 we'll have this talk.
- Then a little break owcoder com
- Then we'll have a big break.
- Then the lab combe used for asking tutors questions on everything and the essessed exercise OWCOGET

Overview of this talk

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- Really, not a clue.
- ... seriously.
- Thit teps cover ported coide epe monther" parts of the course.
- The course was about:

- Design Patterns
- Testing
- (Am I missing anything?)

Coupling and cohesion

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somewhat related. It wouldn't be too hard to write an exam question on coupling and cohesion:

in the book.

■ You can apply your knowledge to spot coupling and cohesion in

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They re also common job interview questions for some companies. What is coupling?

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- A measure of interdependence between modules and routines in notification of interdependence between modules and routines in the notification of interdependence between modules and routines in the notification of interdependence between modules and routines in the notification of interdependence between modules and routines in the notification of interdependence between modules and routines in the notification of interdependence between modules and routines in the notification of interdependence between modules and routines in the notification of interdependence between modules and routines in the notification of interdependence between modules and routines in the notification of interdependence between modules and routines and routines are notification of interdependence between modules and routines are notificat
- Can you name different types of coupling? You've seen at least a few in the labs.

What is coupling?

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- The book says there are the following types of coupling:
 - Content

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- Stamp
- Data

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External

What is cohesion?

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- measure of how well elements inside a module "belong by the S://powcoder.com
- Can you name different types of cohesion? You've also seen at least a few in the labs.

What is cohesion?

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- The book says there are the following types of cohesion:
 - Functional
 - ttps://powcoder.com

 - Sequential
 - Procedural

Describe cohesion

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Compare types of cohesion

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• Mittiple differ pre by en Salatial Cleip and Procedural Cohesion? In what way are they similar?

Design Patterns

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Design patterns are a key part of "lower level" software engineering, and it's easy to write exam questions about them.

httops show poevared deens in mak.
You can apply your knowledge to a given problem.

- You can *contrast* and *evaluate* different design patterns and solutions.
- TAME So Who Tioblitatiev potwooder companies.

What is a Design Pattern?

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- Two of the elements that make up a design pattern are a name, and a list of related patterns. What are the other elements?
- Why is each element important?

What is a Design Pattern?

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- The book says:
 - Name

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- Forces
- Solution

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References

Describe a Design Pattern

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- Institute of months of the second o

What are Patterns Good For?

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• Internet and the patternet awarding the recomply justify your answers.

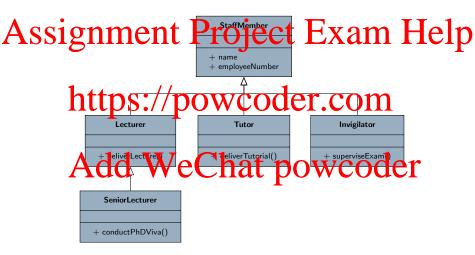
Compare Two Patterns

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• https://powcoder.com.xy?

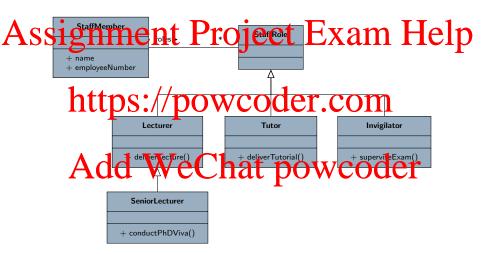
Assignmedingstaprobe in the problem of the staff members have a name and an employee number.

- Some staff members may be Lecturers. A Lecturer may run a dourse, and only/a Lecturer, may do this.
- Some Lecturers may be Senior Lecturers. may conduct a PhD viva, and only a Senior Lecturer may do this.
- SAdd mWeChattopowcodera tutorial, and only a Tutor may do this.
- Some staff members may be Invigilators. An Invigilator may supervise an exam, and only an Invigilator may do this.



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Intrastaff memory my ve more than one of a herturer, a Tutor and an invigilator. Staff members may also take on extra duties over the course of their careers...



Deliberately Awkward Interview Question

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Also, some staff can be First Aid Officers. First Aid Officers digressing the staff can be First Aid Officers. First Aid Officers and Officers.

Deliberately Awkward Interview Question

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- Also, some staff can be First Aid Officers. First Aid Officers dangers and property first Aid Officers nayrogso.
- Some staff members who are both Lecturers and First Aid Officers may be Field Trip Leaders. Field Trip Leaders can lead a field trip, and only Field Trip Leaders may do so. Add We Lat POWCOder

And all the stuff I left out...

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- Rease don't think I'm suggesting this be the extent of your pittings://powcoder.com
- If I've missed out something you really hoped would be covered come talk to me in the lab.



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