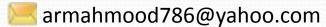
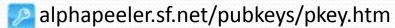
Object Oriented Analysis & Design

Engr. Abdul-Rahman Mahmood

DPM, MCP, QMR(ISO9001:2000)





- in pk.linkedin.com/in/armahmood
- www.twitter.com/alphapeeler
- www.facebook.com/alphapeeler
- S abdulmahmood-sss S alphasecure
- armahmood786@hotmail.com
- Bhttp://alphapeeler.sf.net/me





- t http://alphapeeler.tumblr.com
- namahmood786@jabber.org
- 👠 alphapeeler@aim.com
- S mahmood_cubix 🗱 48660186
- alphapeeler@icloud.com
- **隊** http://alphapeeler.sf.net/acms/

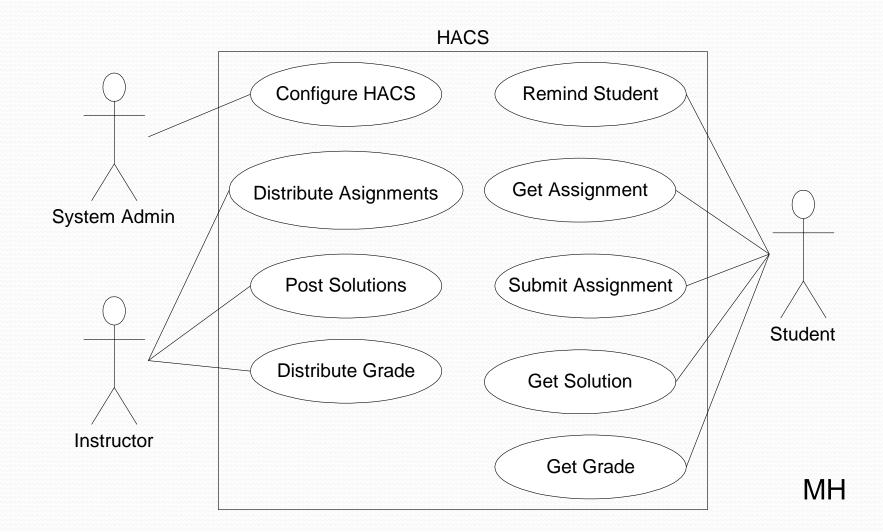
Use Cases

Case Study - Homework Assignment &

Collection Sys

- Homework assignment and collection are an integral part of any educational system. Today, this task is performed manually. What we want the homework assignment distribution and collection system (HACS for short) to do is to automate this process.
- HACS will be used by the instructor to distribute the homework assignments, review the students' solutions, distribute suggested solution, and distribute student grades on each assignment.
- HACS shall also help the students by automatically distributing the assignments to the students, provide a facility where the students can submit their solutions, remind the students when an assignment is almost due, remind the students when an assignment is overdue.

HACS Use-Case Diagram



HACS Use-Cases

Use case: Distribute Assignments

Actors: Instructor (initiator)

Type: Primary and essential

Description: The Instructor completes an assignment and submits

it to the system. The instructor will also submit the

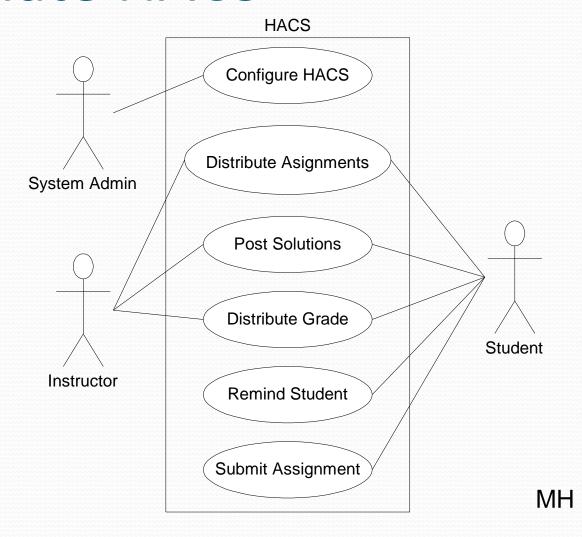
due date and the class the assignment is assigned for.

Cross Ref.: Requirements XX, YY, and ZZ

Use-Cases: Configure HACS must be done before any user

(Instructor or Student) can use HACS

Alternate HACS



Alternate HACS Use-Cases

Use case: Distribute Assignments

Actors: Instructor (initiator), Student

Type: Primary and essential

Description: The Instructor completes an assignment and submits

it to the system. The instructor will also submit the

delivery date, due date, and the class the assignment

is assigned for. The system will at the due date mail

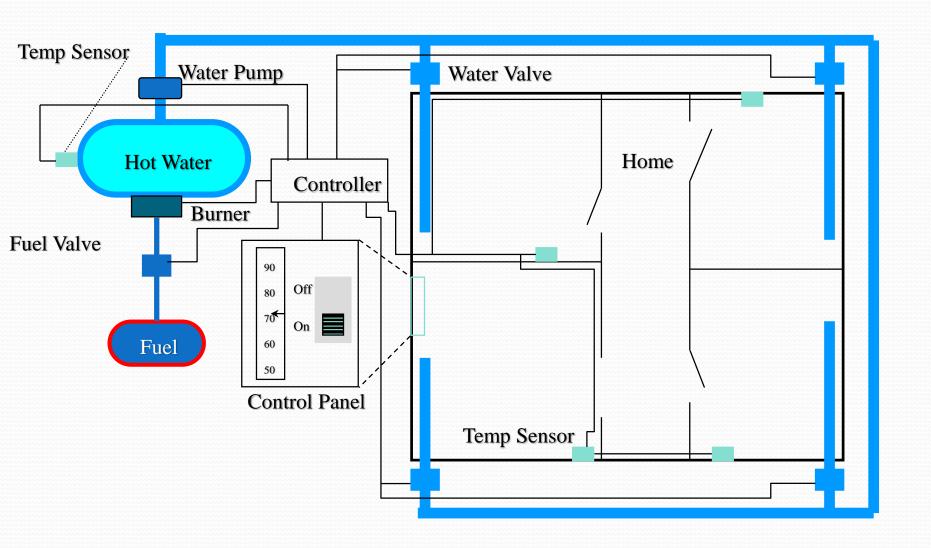
the assignment to the student.

Cross Ref.: Requirements XX, YY, and ZZ

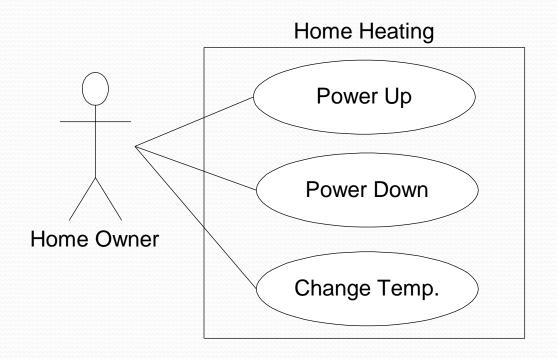
Use-Cases: Configure HACS must be done before any user

(Instructor or Student) can use HACS

The Home Heating System



Home Heating Use-Case Diagram



MH

Home Heating Use-Cases

Use case: Power Up

Actors: Home Owner (initiator)

Type: Primary and essential

Description: The Home Owner turns the power on. Each room

is temperature checked. If a room is below the

the desired temperature the valve for the room is

opened, the water pump started. If the water temp falls

below threshold, the fuel valve is

opened, and the burner ignited.

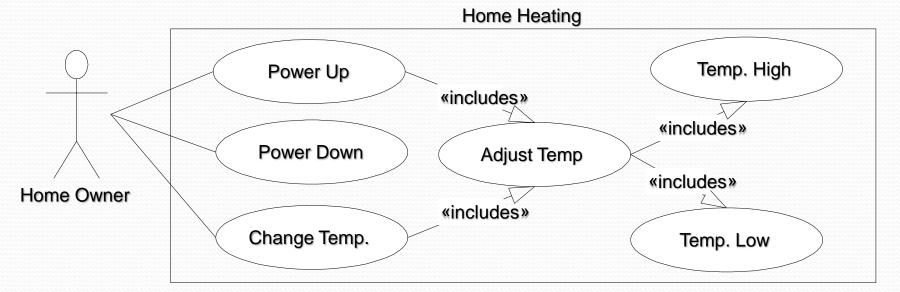
If the temperature in all rooms is above the desired

temperature, no actions are taken.

Cross Ref.: Requirements XX, YY, and ZZ

Use-Cases: None

Modified Home Heating



MH

Modified:

* Home Heating Use-Cases

Use case: Power Up

Actors: Home Owner (initiator)

Type: Primary and essential

Description: The Home Owner turns the power on.

Perform Adjust Temp. If the temperature

in all rooms is

above the desired temperature, no actions are taken.

Cross Ref.: Requirements XX, YY, and ZZ

Use-Cases: Perform Adjust Temp

Modified:

Home Heating Use-Cases

Use case: Adjust Temp

Actors: System (initiator)

Type: Secondary and essential

Description: Check the temperature in each room. For each room:

Below target: **Perform Temp Low**

Above target: **Perform Temp High**

Cross Ref.: Requirements XX, YY, and ZZ

Use-Cases: Temp Low, Temp High

Modified:

Home Heating Use-Cases

Use case: Temp Low

Actors: System (initiator)

Type: Secondary and essential

Description: Open room valve, start pump if not started.

If water temp falls below threshold,

open fuel value and ignite burner.

Cross Ref.: Requirements XX, YY, and ZZ

Use-Cases: None

Scenarios -- One Use Case

Power-up All temps OK

Power-up All temps too low Open valves

Scenarios -- One Use Case

