

## **Software Engineering with LEGO**

### **Clear Communication and the Waterfall Process**

#### **Initial Requirements for Product ID #1**

Objective: build a house out of LEGO bricks

- The house must have exactly three walls
- The house must have one floor
- The footprint of the house must be approximately proportional to 2x3
- The house must have a door and two windows
- Both windows must be wider than the door

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#### **Initial Requirements for Product ID #2**

Objective: build a house out of LEGO bricks

- The footprint of the house must be approximately proportional to 1x2
- The house must have one floor
- The house must have a door and a window
- The door must be smaller than the window
- There must be a separate door for a cat

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### **Clear Communication and the Waterfall Process**

#### **Initial Requirements for Product ID #3**

Objective: build a house out of LEGO bricks

- The footprint of the house must be square
- The house must have one floor
- The house must have a door and exactly three windows
- Each window must have a different size
- One of the windows must have an unusual shape

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#### **Initial Requirements for Product ID #4**

Objective: build a house out of LEGO bricks

- The house must have four walls
- The house must have one floor
- The house must have a door and a window
- The door must be almost as big as an entire wall
- One of the walls must be (mostly) red

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### **Clear Communication and the Waterfall Process**

#### **Initial Requirements for Product ID #5**

Objective: build a house out of LEGO bricks

- The house must have four walls
- The house must have one floor
- The house must have four doors and no windows
- All doors must be the same size
- One of the walls must be (mostly) blue