

# פיתוח מערכות תוכנה מבוססות

Java

## תפקידים בצוות XP

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# The customer role

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*The people in the Customer role choose what will deliver business value, choose what to do first and what to defer, and define the tests to show that the system does what it needs to.*

# The programmer role

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- *The people in the Programmer role analyze, design, test, program, and integrate the system.*
- *The programmers estimate the difficulty of all stories, and track the pace at which they can deliver stories to the customer.*

# מקומם של תפקידים קלאסיים בצוות XP

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אנו מנסים לצמצם ככל הניתן שלבים בתהליך הפיתוח

**Testers**

■ עוזרים ללקוח

**Interaction Designers**

■ עוזרים ללקוח

**Architects**

■ עזרה בשכתובים גדולים

■ כתוב tests להמחשת נחיצות

■ הפרדה של המערכת למודולים (תוך כדי פיתוח!)

**Technical Writers**

■ משוב מהלקוחות ומהמשתמשים

# The manager role

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- *The person in the management role brings the customer and developers together and helps them meld into a smoothly operating team.*
  
- *You (the manager) don't do the process — you make the process smoother.*

# מנהלים בצוות XP

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## □ Project Managers

- facilitate communication inside the team and coordinate communication with customers, suppliers, and the rest of the organization
- Project managers act as team historians, reminding the team how much progress it has made

## □ Product Managers

- product managers write stories, pick themes and stories in the quarterly cycle, pick stories in the weekly cycle, and answer questions as implementation uncovers under-specified areas of stories

## □ Executives

- Executives provide an XP team with courage, confidence, and accountability. The strength of an XP team, shared progress toward shared goals, can also be a weakness.
- Another job for executives sponsoring or overseeing XP teams is monitoring, encouraging, and facilitating improvement.

# תפקידים בצוות במסגרת הקורס

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- אנו מגדירים כאן תפקידים שונים בצוות XP
- חלוקת התפקידים לאנשי הצוות מבוססת על גודל הצוות ועומס התפקיד
- רוב התפקידים הם "תפקידי רוחב" ויש לבצע אותם במקביל למשימות פיתוח
- מבוסס על:

A Framework for Teaching Software Development Methods /  
by Yael Dubinsky and Orit Hazzan

*Computer Science Education* Vol. 15, No. 4, pp. 275 – 296

# תפקידים בצוות במסגרת הקורס

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- Leading Group
- Coach
  - Coordinates and solves group problems, checks the web forum and responds on a daily basis, leads some development sessions.
- Tracker
  - Manages the group diary, measures group progress with respect to the estimations and test scores, manages and updates the boards.
- Methodologist
  - Learns the software development method applied in the course and guides the software process when required, guides and supports the other team members with their role.



# תפקידים בצוות במסגרת הקורס

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- Customer Group
  
- Customer
  - Tells customer stories, makes decisions pertaining to each iteration, provides feedback, defines and develops acceptance tests.
  
- Acceptance tester
  - Works with the customer to define and develop acceptance tests, learns the topic of test-driven development and instructs it to the other team members.

# תפקידים בצוות במסגרת הקורס

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- Maintenance Group
  
- Presenter
  - Plans, organizes and presents version presentations, demos, and time schedule allocations.
  
- Documenter
  - Plans, organizes and presents the project documentation: process documentation, user guide, and installation instructions.
  
- Installer
  - Plans and develops an automated installation kit, supports and instructs other teammates as to the appropriate way to develop software for easy and correct installation.

# תפקידים בצוות במסגרת הקורס

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## □ Code Group

### □ Designer

- Maintains current design, works to simplify design, searches for locations in the software that need refactoring and ensures proper execution of such.

### □ Code reviewer

- Establishes and refines group code standards, searches for development tools that can help the team, guides pair programming, guides and supports in the maintaining of the code standards and tools.

### □ Unit tester

- Learns about unit testing, establishes an automated test suite, guides and supports other team members in the development of unit tests.

### □ Integrator

- Establishes an integration environment including source control, publishes rules pertaining to the addition of new code using the test suite, guides and supports other teammates in the integration task.