Automated Benchmark Management

Lisa Nguyen, Ben Hermann
About ABM
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Metaprogramming
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A programming technique in which programs take other programs as their data.
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• Representative of real-world programs
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• Up-to-date
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- Representative of real-world programs
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- Open-source (for replication purposes)
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- Representative of real-world programs: **X**
- Up-to-date: **✓**
- Open-source (for replication purposes): **✓**
- Buildable: **✓**
- Specific to what is tested: **✓**
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- eps: a templating tool for PowerShell (similar to erb for Ruby) - 5/9/14 4:01 PM - 169 kB - Github
- EPSignature: Signature component for iOS in Swift - 1/19/16 10:46 AM - 348 kB - Github
- EPSy: a Particles system for Phaser and Pixi - 8/25/14 8:51 PM - 581 kB - Github
- vectorgraphics2d: Graphics2D implementations to export various vector file formats - 2/16/15 6:07 PM - 996 kB - Github

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4 Projects selected

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Search for: eps

Add this Project to a Collection | Add all Selected Projects to a Collection | Create Collection | Remove all

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Add this Project to a Collection | Select all | Deselect all

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- Long time to run
- Missing functionalities
Your work
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• Improve the workflow of the ABM web application:

  • Design a new workflow that minimizes the burden on the user

  • Design a UI that matches the new workflow

  • Add missing functionalities
Your work

• Improve the workflow of the ABM web application:
  • Design a new workflow that minimizes the burden on the user
  • Design a UI that matches the new workflow
  • Add missing functionalities
  • Implement the changes
Your work

- Improve the workflow of the ABM web application:
  - Design a new workflow that minimizes the burden on the user
  - Design a UI that matches the new workflow
  - Add missing functionalities
- Implement the changes
- Evaluate the changes
Learning outcomes
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• Work in an ongoing project
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• Design: Architectural and UI
Learning outcomes

• Work in an ongoing project

• Design: Architectural and UI

• Full-stack
Learning outcomes

• Work in an ongoing project

• Design: Architectural and UI

• Full-stack

• Testing: functional and usability
Requirements

• Good understanding of Java and JavaScript

• Experience with software design and efficient programming

• Knowledge of relational database systems

• Prior knowledge of JavaEE, AngularJS and Docker is helpful, but not required
Interested?

• Come talk to me today...

• ... drop us an email...
  lisa.nguyen@iem.fraunhofer.de
  ben.hermann@upb.de

• ... or come visit us at ZM1 or HNI (F)!