ZenHub

INTRODUCTION TO RAMDA

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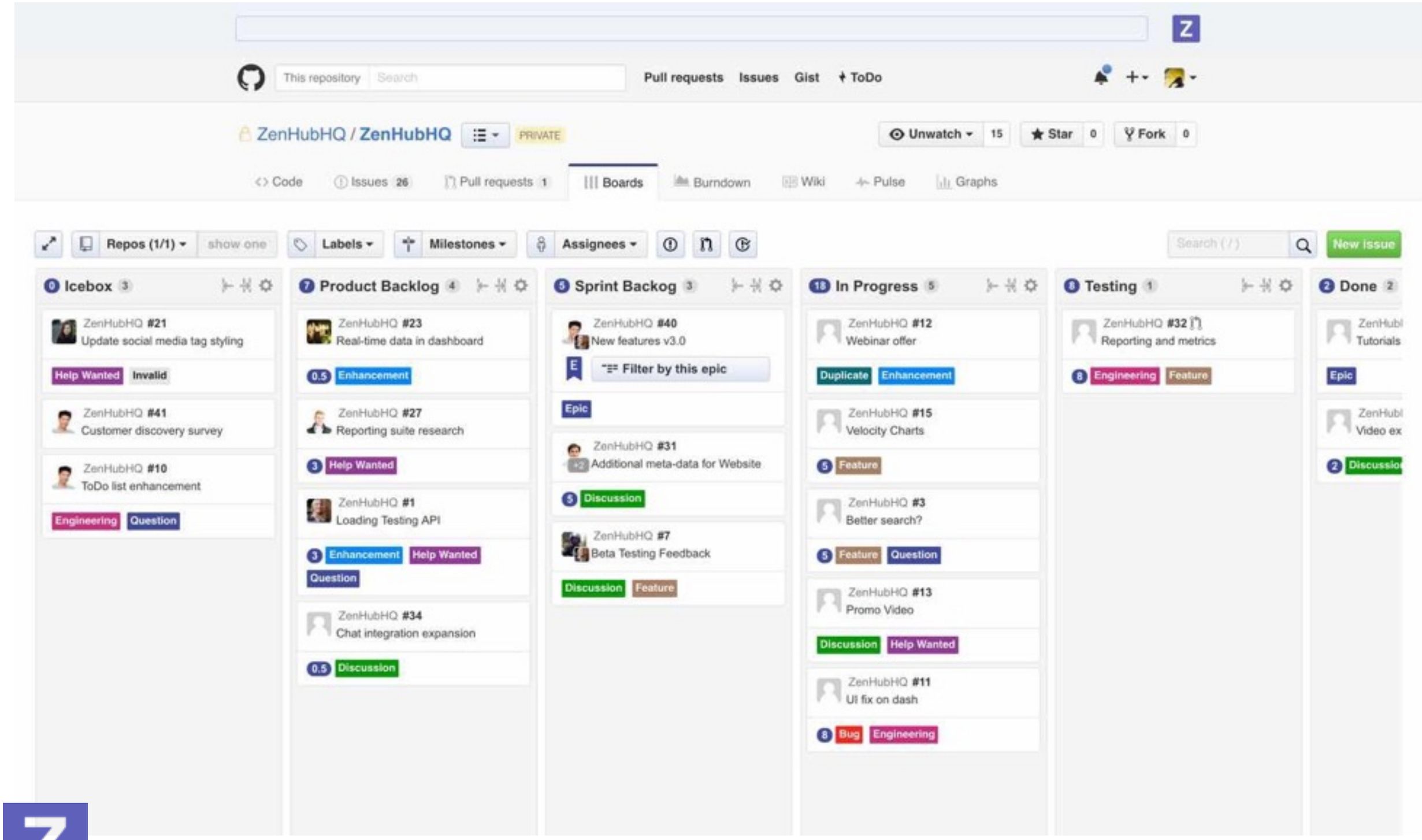
Open Source Hackathon, GitHub HQ, San Francisco

github.com/leggechr/intro-to-ramda

ZENHUB.COM



github.com/leggechr/intro-to-ramda

“

A practical functional library for Javascript programmers

-ramdajs.com

github.com/leggechr/intro-to-ramda

FUNCTIONAL PROGRAMMING

- first-class functions

- purity

- immutable data

github.com/leggechr/intro-to-ramda

FUNCTIONAL PROGRAMMING

- no side effects

not functional 😰	functional 😄

`var a1 = 0;`
`function increment() {`
`  a1 += 1;`
`}`
	`function increment(a2) {`
	`  return a2 + 1;`
	`}`

FUNCTIONAL PROGRAMMING

- Pure functions: same input → same output

not pure 😰	pure 😄

`var a1 = 0;`
`function increment() {`
`  a1 += 1;`
`}`
 	
`increment(); // => a1 = 1`
`increment(); // => a1 = 2`
`increment(); // => a1 = 3`
	`function increment(a2) {`
	`  return a2 + 1;`
	`}`
	
	`increment(0); // => 1`
	`increment(0); // => 1`
	`increment(0); // => 1`

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WHY RAMDA?

- Simple functions

native JavaScript (ES6) 😰	with Ramda 😄

`var myObj = { id: 1, isOn: false };`
 	
`function enable(obj) {`
`  return Object.assign({}, obj, {`
`  isOn: true`
`  });`
`}`
 	
`var newObj = enable(myObj);`
	`var myObj = { id: 1, isOn: false };`
	
	`var enable = R.assoc('isOn', true);`
	
	`var newObj = enable(myObj);`

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WHY RAMDA?

- Integrates well with React/Redux based applications

native JavaScript (ES6) 😰	with Ramda 😄

`function addToDo(state, action) {`
`  var newTodo = {`
`  text: action.text,`
`  complete: false`
`  };`
 	
`  var todos = [...state.todos, newTodo];`
 	
`  return Object.assign({}, state, {`
`  todos: todos`
`  });`
`}`
	`function addToDo(state, action) {`
	`  var newTodo = {`
	`  text: action.text,`
	`  complete: false`
	`  };`
	
	`  var todos = R.append(newTodo, state.todos);`
	
	`  return R.assoc('todos', todos, state);`
	`}`

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WHY RAMDA?

- Clean and concise code

github.com/leggechr/intro-to-ramda

RESOURCES

https://github.com/leggechr/intro-to-ramda

- Mostly Adequate Guide to Functional Programming
- ramdajs.com
- What Ramda Function Should I Use?