



**SUSTech**

# Hello SUSTech

## Final Presentation

Southern University of Science and Technology  
Department of Computer Science and Engineering

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# SUSTech

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Hello SUSTech

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# SUSTech

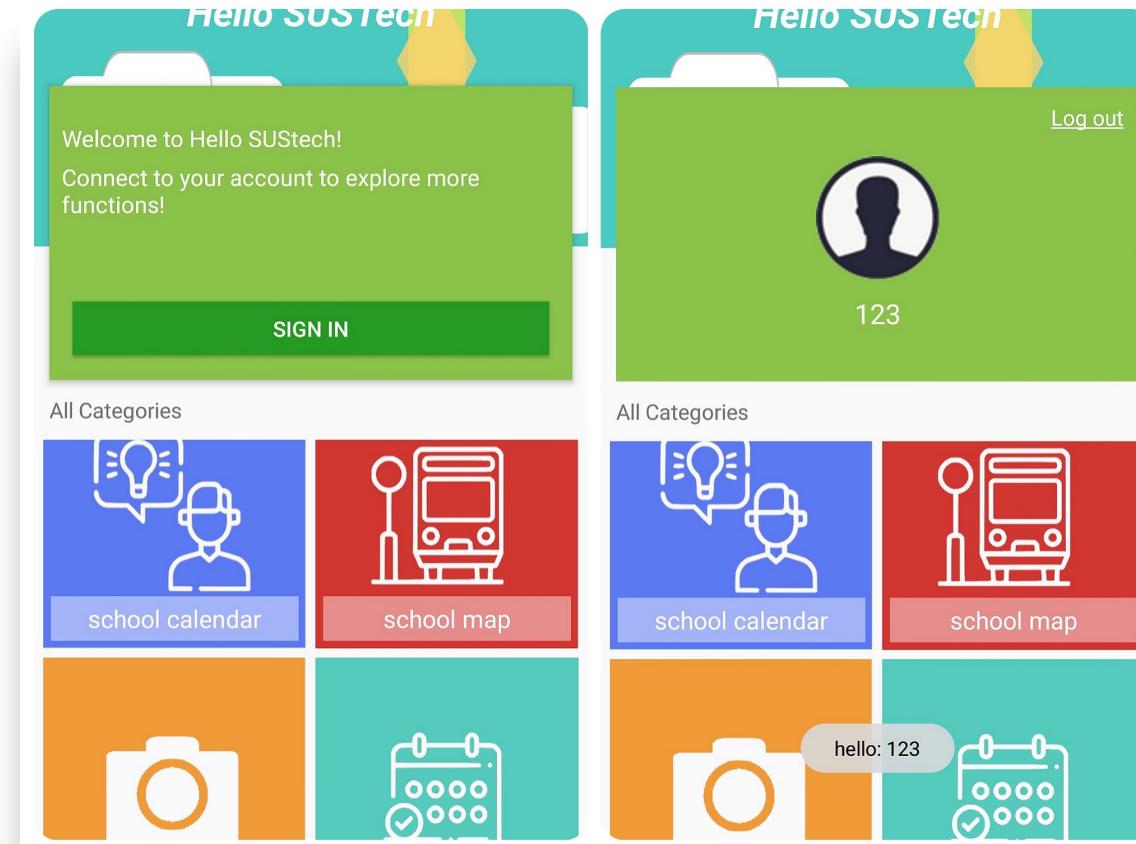
## Introduction



## Welcome Page



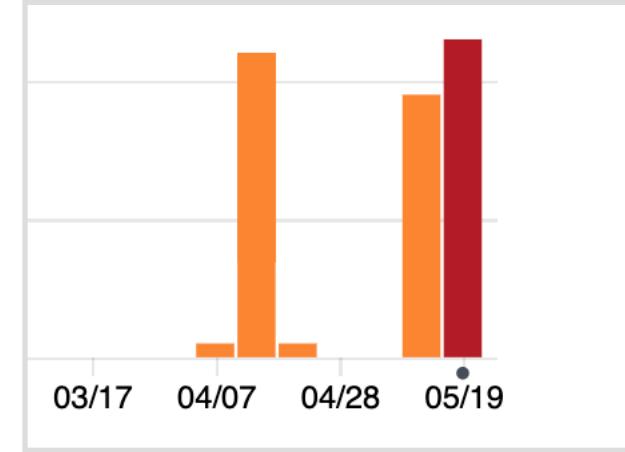
## Introduction





## Time Line

week	Content
before week 10	Welcome Page; Main Page; Login Page
week 10	Create your own class table;
week 11	Look at the school map; Search school buildings by name;
week 12	Navigate to a location;
week 13	View pictures of a building;
week 14	Taking pictures using a camera;
week 15	Search school buildings by picture

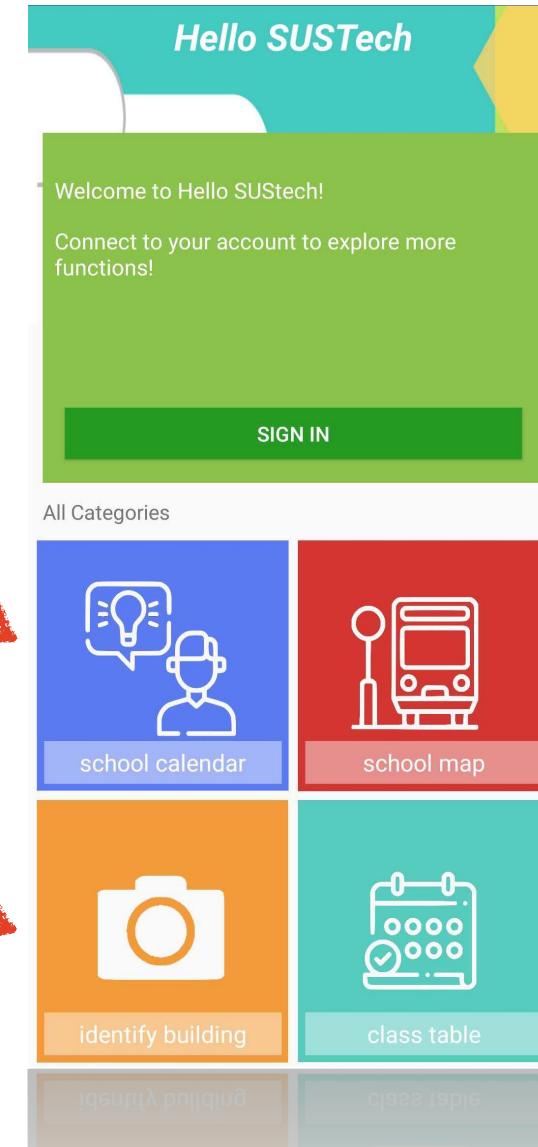




## Features?

- Check school calendar

- Take a picture
- Recognize building from picture



- Sign in
- Sign Up

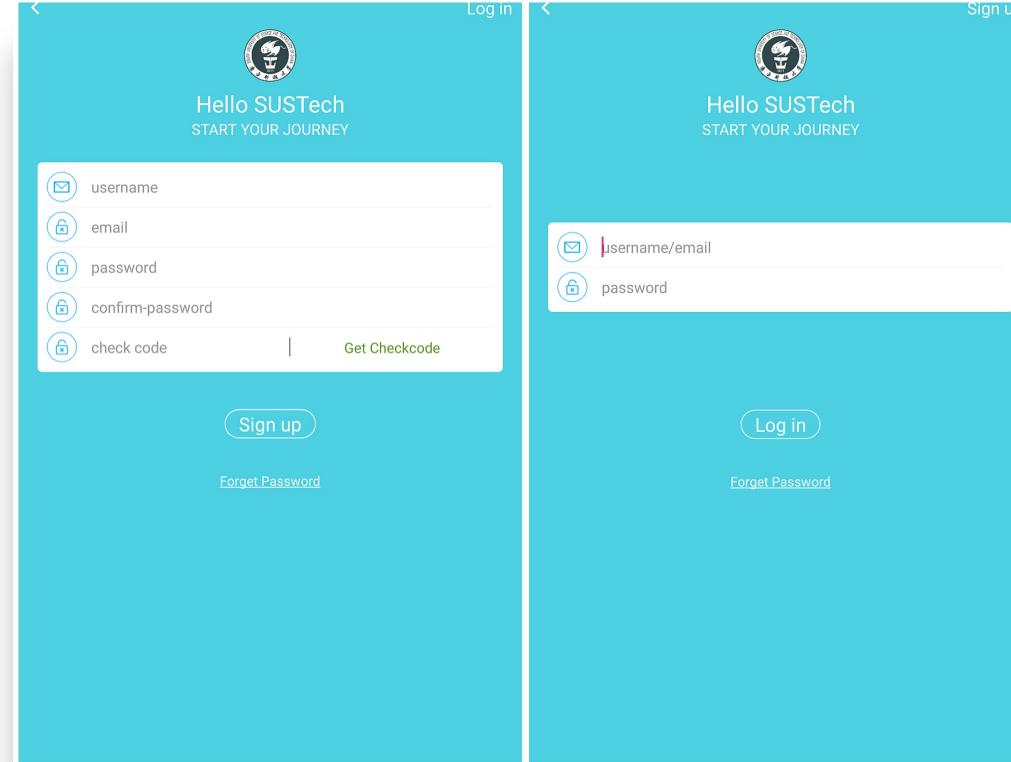
- Check map
- Search building by name
- Navigation

- Check class table
- Modify class



# SUSTech

## Features



## Login and Sign up



# SUSTech

## Features



## School Calendar



# SUSTech

## Features

The image displays three screenshots of the SUSTech Class Table feature:

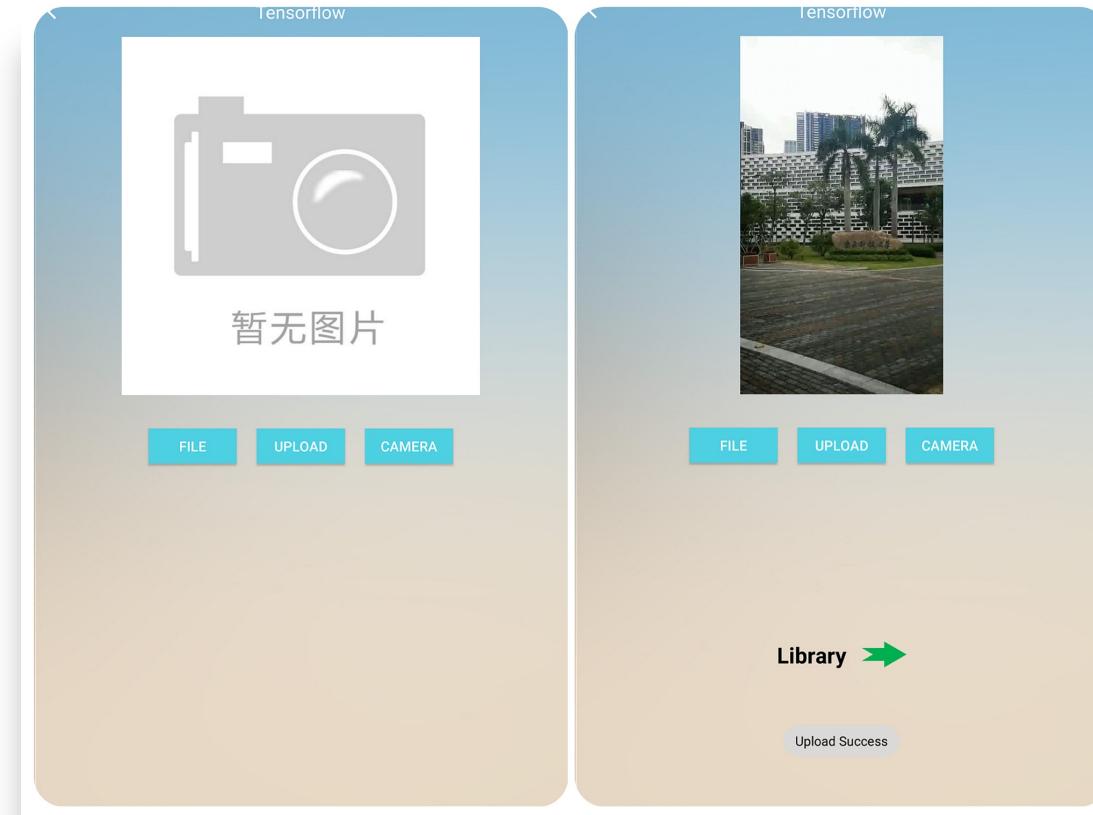
- Left Screenshot:** A weekly class schedule for "2019Summer". It shows two days: 周一 (Monday) and 周二 (Tuesday). Each day has six time slots from 08:00 to 22:00. Each slot contains course information: 无 (None) for all slots. The background is light blue.
- Middle Screenshot:** A detailed view of Monday's schedule. It shows the first slot (08:00-09:50) with course information: 一、二节 (1st & 2nd period), 课程: test, 授课教师: classroom, 教室: yi, 周次: 1-16. Below this is a decorative graphic of stacked books and a pencil. At the bottom are three buttons: 取消 (Cancel), 删除 (Delete), and 更新 (Update).
- Right Screenshot:** A search interface titled "周一 (一、二节)". It includes a search bar with placeholder text "请输入课程名字" (Please enter course name), a search icon, and a plus sign button. Below the search bar are two entries: one for "test" and another for "yi". Each entry shows course details: 课程: test, 授课教师: classroom, 教室: yi, 周次: 1-16. The background is light blue.

## Class Table



# SUSTech

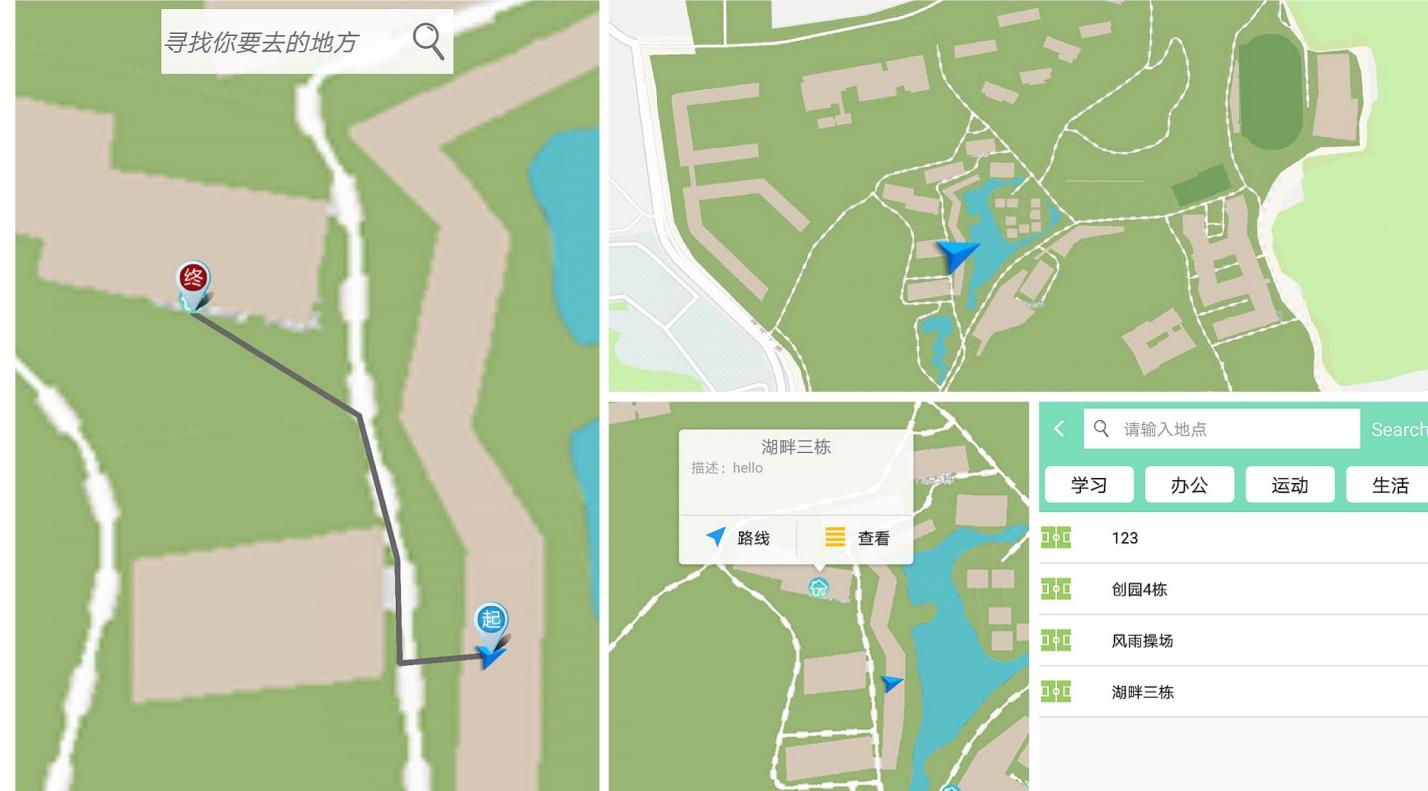
## Features



## Recognition



## Features



Map

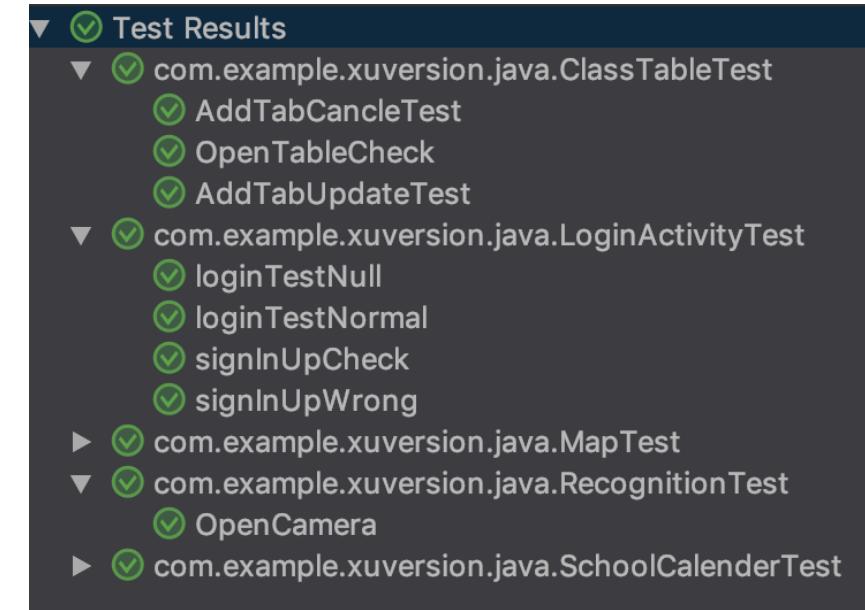
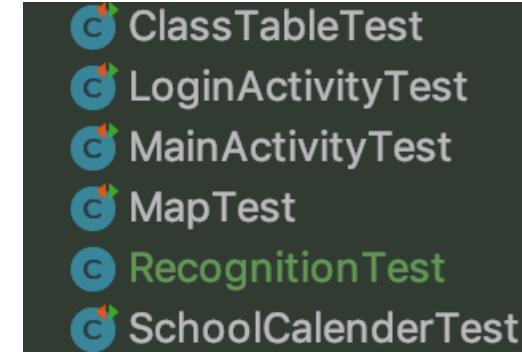


## Test – Frontend:

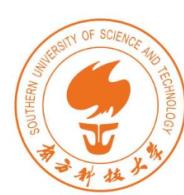
### UI Test:

- Sign in and Sign up
  - Sing up NULL
  - Sign in wrong
  - Sign in right
- Check Map
  - Open Map and search building
- Check School Calendar
  - Open Calendar
- Check Class Table
  - Add class table
  - Remove class table
- Recognition
  - Open Recognition

Total: 10



Result



## Test – Backend:

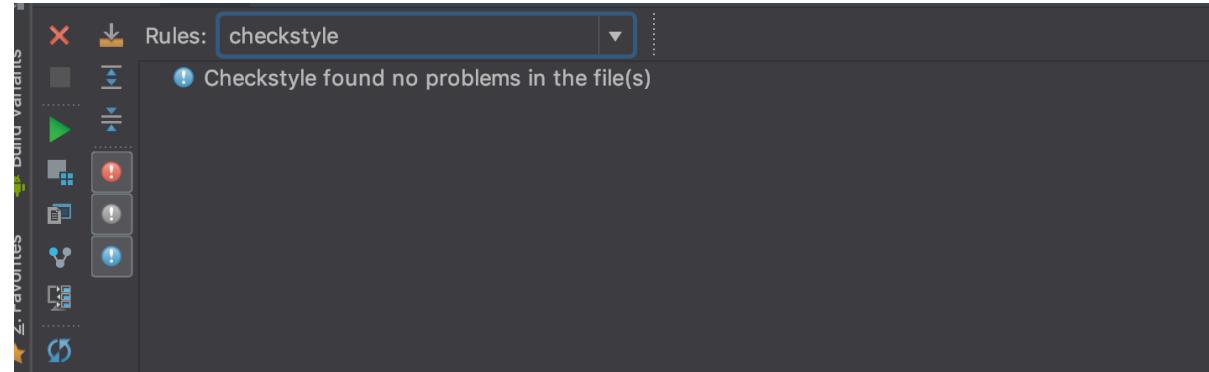
JUnit:  
Total 45

The screenshot shows the IntelliJ IDEA interface with the following details:

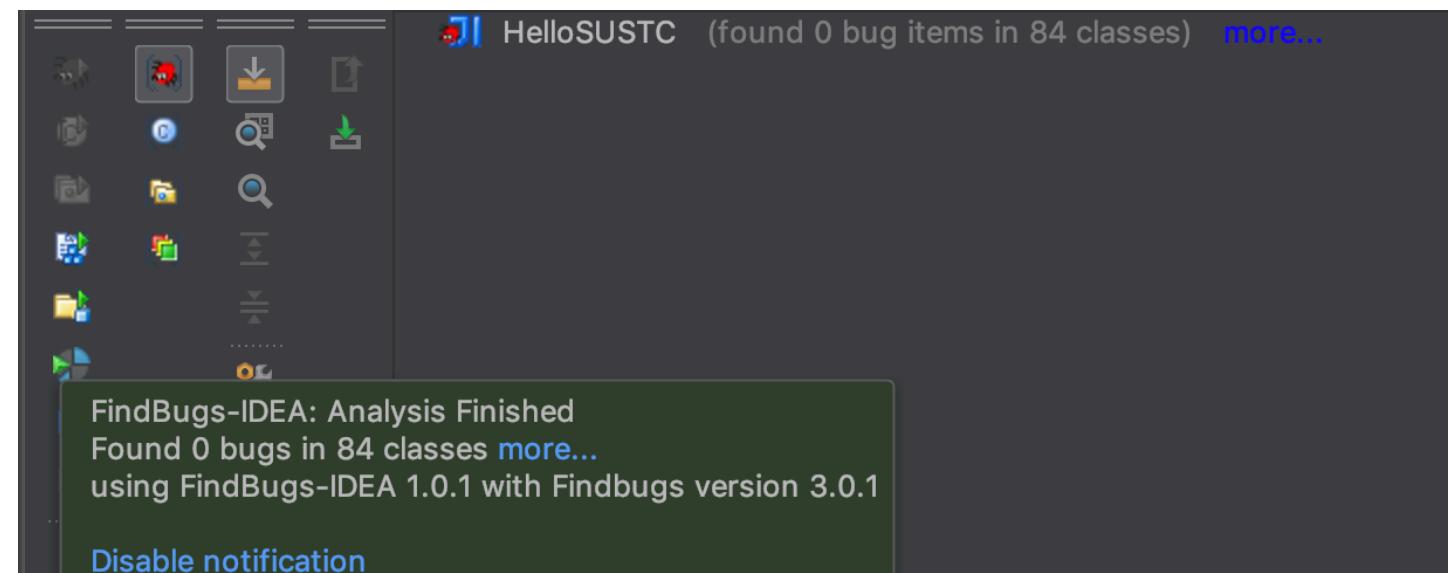
- Project Structure:** The left panel displays the project structure under "1: Project". It includes packages like com.example.hellosustechbackend, api, domain, filestorage, mail, model, service, status, and web. A "test" package contains Java files such as FileStorageImpl\_ESTest and Mail\_old\_ESTest.
- Maven Plugins:** The right panel shows the Maven configuration for the "hello-sustech\_back-end" module, listing Lifecycle, Plugins (clean, compiler, deploy, evosuite), and their respective versions.
- Coverage Report:** A coverage report titled "55% classes, 21% lines covered in 'all classes in scope'" is shown. It provides a breakdown by package: com (55% classes, 24% methods, 21% lines, 10% branches). The "com" row is highlighted with a red box.
- Run Results:** The bottom panel shows the run results for "HelloSustechBackEndApplication". It indicates "All in hello-sustech\_back-end" and "Tests passed: 39, ignored: 6 of 45 tests – 2 s 191 ms". The "BuildingAPI\_ESTest" section is expanded, showing individual test results for test0, test1, and test2.



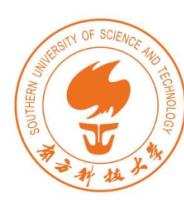
## Results of static analysis tools — Frontend



### CheckStyle



### FindBugs



## Results of static analysis tools — Backend

The screenshot shows the CheckStyle interface with the following details:

- Rules: checkstyle
- Checkstyle found 127 item(s) in 31 file(s)
- Building.java : 16 item(s)
- BuildingAPI.java : 1 item(s)
- Class.java : 19 item(s)
- ClassAPI.java : 1 item(s)
- Course.java : 19 item(s)
- DownloadFileAPI.java : 1 item(s)
- FileInfo.java : 5 item(s)

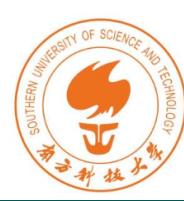
## CheckStyle

The screenshot shows the FindBugs-IDEA interface with the following details:

- Search for: hello-sustech\_back-end (found 4 bug items in 33 classes) more...
- Internationalization (1 item)
- Bad practice (3 items)

Toolbars at the bottom include: PMD, Find, Run, Debug, TODO, Version Control, Spring, Messages, CheckStyle, and FindBugs-IDEA.

## FindBugs

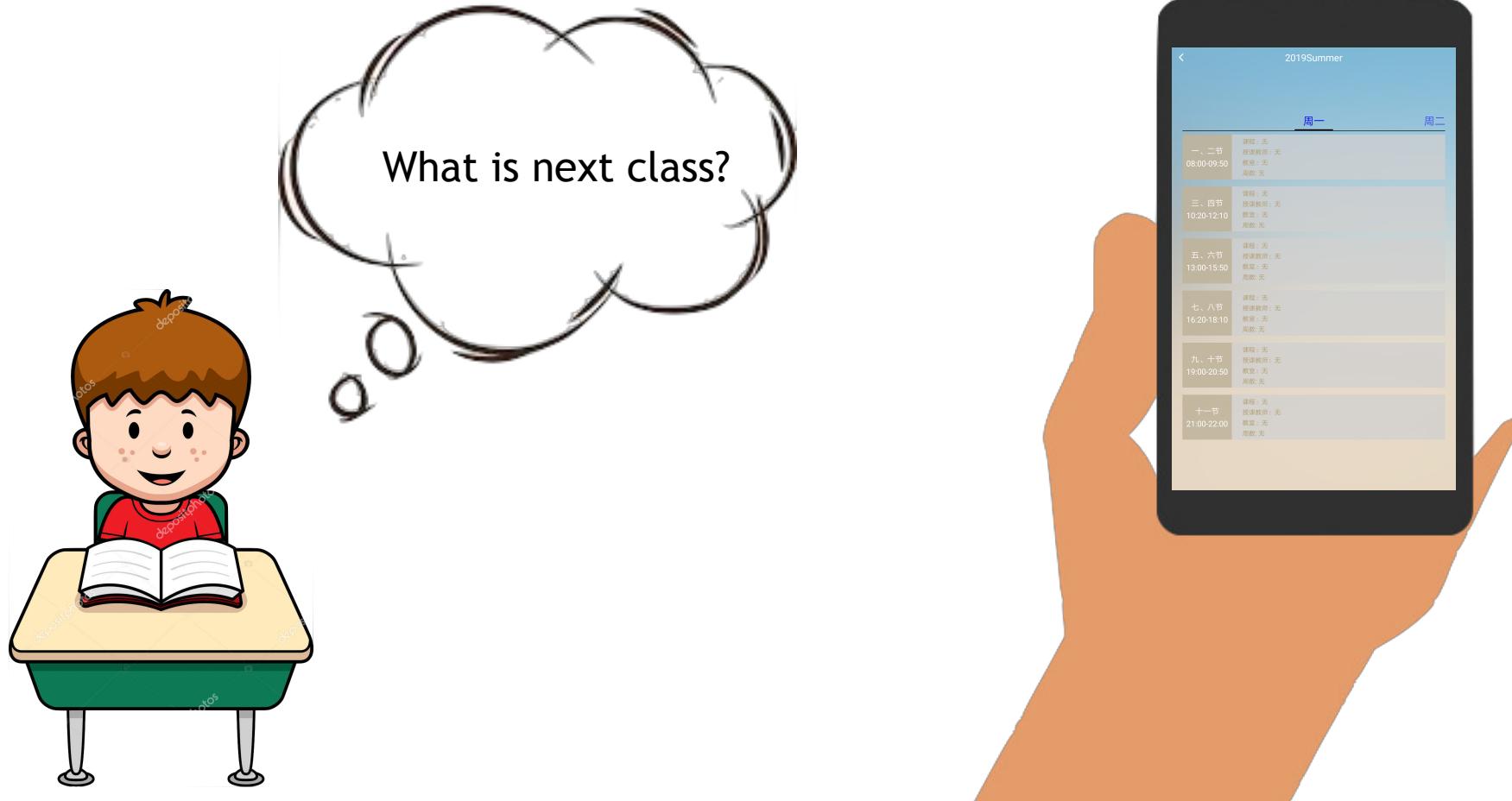


## Usage Scenario:





## Usage Scenario:





## Usage Scenario:





Conclusion:

What's the main ideas?

The results?



## Discussion:

- What lessons did you learn from your project?
- What was difficult?
- What do you wish you could have done (or done differently)?
- How could your project be extended...what's next? Are there any interesting problems or questions that resulted from your work?