

September 2006

# R-EVOLUTION

Newsletter for the Developer Community

For Private Circulation only



## Editorial

Dear Developers:

One of the thrust areas of the Reliance Developer Programme has been to hone talent and catalyse innovation among the student developer community through its University Relations Programme (URP). This ongoing initiative has opened up a great opportunity for the vast student talent pool in engineering colleges and technology institutes across India. The programme helps students ideate and develop marketable mobile applications through comprehensive support and direct contact programmes - in other words it, facilitates them transform ideas into reality.

As an extrapolation of its URP, we (RDP) have joined hands with IIT - Mumbai's Entrepreneurship Cell to promote student entrepreneurs in the mobile Value Added Services space. Part of the tie-up saw RDP conduct a workshop on Mobile VAS - Entrepreneurship Challenges & Opportunities in IIT Mumbai on September 1, 2006. We present to you pictures and news from the workshop in IIT-Mumbai in the Lead Story of this issue. With this association, RDP will hold workshops in all IITs across the nation.

I am sure this initiative of Reliance Developer Programme will see the birth of many young student entrepreneurs in the coming days and who knows that the next big product innovation could be from one of these students.

Warm regards,

**Saurabh Chakrabarti**

Reliance Developer Programme Team

## RDP TIE-UP WITH IIT MUMBAI

Page 2

### IIT-MUMBAI



#### LEAD STORY

URP Spreads its Wings

Page 2



#### TECHTIP

Designing MVC pattern

Page 4



#### BRAINGYM

Face Interface

Page 5



#### FEEDBACK

Letters to the Editor

Page 5

# PROMOTING ENTREPRENEURSHIP AMONG STUDENTS

*Reliance Developer Programme ties up with IIT-Mumbai to promote innovation and entrepreneurship among students.*



Lake at IIT, Powai

**T**he Reliance Developer Programme (RDP) recently joined hands with the IIT, Mumbai Entrepreneurship Cell to promote student entrepreneurs in mobile Value Added Service (VAS) space.

As part of the tie-up, RDP conducted a workshop titled 'Mobile VAS - Entrepreneurship Challenges & Opportunities' at IIT, Mumbai on September 1, 2006. Vishal Gondal, Founder and Director, India Games Ltd was the chief guest and over 70 students participated enthusiastically in this lively workshop. Gondal delivered a guest lecture to the students on entrepreneurship and the mobile VAS space.

With his association RDP will conduct workshops across all IITs in India. This tie-up aims to help the student community unlock its potential and develop useful applications for mobile phone users and enable themselves to benefit from the innovation.

IIT students are known for their creativity and intelligence. So this tie-up gives them an opportunity to transform their latent ideas into a patent reality.

This industry-academia tie-up is an extension of Reliance Developer Programme's University Relations Programme (URS), which offers a unique opportunity for the budding entrepreneurs from the student community to channelise their creativity, ideate and monetize their innovation through a tripartite revenue sharing agreement among Reliance Communications, students and respective Institutes.



1

1. Students participating in the workshop
2. Saurabh Chakrabarti introducing Reliance Developer Programme to students
3. Vishal Gondal, Founder and Director, India Games Ltd delivering a lecture on entrepreneurship



2

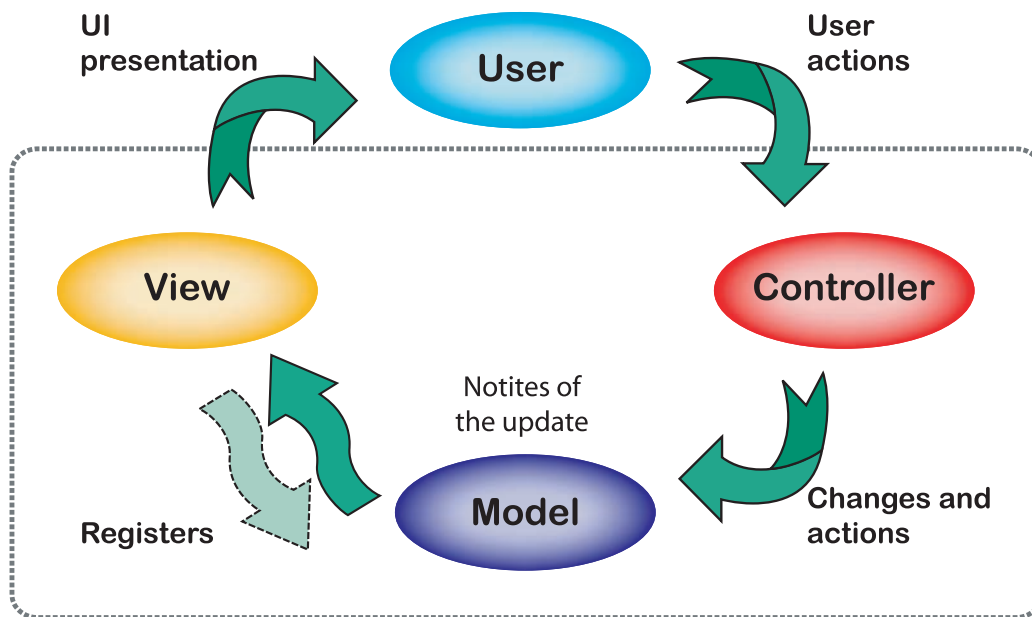


3

# DESIGNING THE MVC PATTERN IN MIDP DEVELOPMENT - I



TECH TIP



This is the first in a two-part series on Model-View-Controller (MVC) design patterns in an MIDP environment. This article discusses the basics of MVC architecture. The second part will discuss the implementation of MVC in an MIDP environment.

In day-to-day software development one encounters the same kind of problems. Rather than solving the same problem each time, documenting the solution and re-using it is a wise thing to do. Similarly, design patterns can be documented and solutions generalised for common problems in application development. One usually comes across two phases in implementing a design pattern. First

understanding it, and then using it. This article introduces readers to the MVC pattern and about making it a part of an MIDP user interface development.

## Three parts of an MVC

The MVC pattern consists of three parts: model, view, and controller. The model represents the data and business logic of the application. In an accounting application, the model would be the part of the application responsible for fetching data from the lower layers or components, handling the data, making necessary calculations and notifying all the views registered to that particular data of any changes.

The view is the actual screen that displays data and related commands to the user. Some applications offer multiple views of a given model, or even of the same data. Many popular spreadsheet applications present different of charts representing a single block of data.

The controller receives user actions and dispatches them to the model. The user can assign a single class to the controller or divide the controller's responsibilities among several classes.

## The MVC pattern

Let's look at the diagram of an MVC pattern. The view contains the graphical user interface, which is the part of the application the user can see. When the user alters the data on the screen and then initiates an action, the action goes to the controller. The controller determines the kind of action that has been requested and calls the appropriate interfaces of the model. The model can consist of several components, classes, or packages, depending on the technology that implements the application's business logic.

It is obvious that the view has registered itself to the model. The model notifies the view of data changes in its various components. This way, the view doesn't have to poll the model about changes in the application data.

*(To be continued in the next issue)*



QUIZ

# BRAINGYM

## 1. What is the result of the following program?

```
char *gxxx()
{static char xxx[1024];
return xxx;
}
main()
{char *g="string";
strcpy(gxxx(),g);
g = gxxx();
strcpy(g,"oldstring");
printf("The string is : %s",gxxx());
}
```

- a) It is a 'string'
- b) It is 'Oldstring'
- c) Run time error/Core dump
- d) Syntax error during compilation
- e) None of these

## 2. Which of the following statements correctly describes an interface?

- a) A concrete class
- b) A superclass
- c) A type of abstract class

## 3. An interface contains \_\_\_\_\_ methods

- a) Non-abstract
- b) Implemented
- c) Unimplemented

## 4. Which of the following will output -4.0 in java

- a) System.out.println(Math.floor(-4.7));
- b) System.out.println(Math.round(-4.7));
- c) System.out.println(Math.ceil(-4.7));
- d) System.out.println(Math.Min(-4.7));

Ans. 1(b), 2(c), 3(c) & 4(c)

### Monthly poser

Which method is used to access a component's immediate Container in Java?

- a) setVisible()
- b) getImmediate
- c) getParent()
- d) getContainer

### Answer to June's month's poser: AT&T

The winner of September's poser (through a lucky draw) is

**Vikram Behl** - Kanpur

Winner will receive prize by courier.

Answers to the Monthly Poser should be sent to [dadp.newsletter@relianceada.com](mailto:dadp.newsletter@relianceada.com) mentioning Monthly Poser—September 2006 as the subject with the sender's location. The winner will be decided on the basis of a lucky draw and walk away with a prize.

You can contribute ideas and information to *R-evolution* at the following e-mail address: [dadp.newsletter@relianceada.com](mailto:dadp.newsletter@relianceada.com). Please note that contributions may be edited for clarity, style or length.

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FEEDBACK

# Letters to the Editor

I liked the article titled, 'The WAP way to a mobile wonderland' in the August 2006 issue of R-evolution. Can we develop WAP-based services on Reliance's network?

**Ashutosh Sen, Kolkata**

**Editor:** Dear Ashutosh, thanks for letter. We are currently not offering data services on WAP. However, if you have any innovative mobile data service ideas on WAP do share it with us at [dadp.query@relianceada.com](mailto:dadp.query@relianceada.com) and we can help you make a commercial offering out of them on JAVA or BREW platforms.

I read R-evolution every month and find the Lead Story and Tech Tip articles informative. Reliance offers Location-Based Services as I have prepared a concept regarding LBS, which I would like to develop.

**Harish Kapadia, Kolkata**

**Editor:** Dear Harish, thank you for the feedback. We do not offer LBS services now but plan to do so in the near future. Do send us details of your application at [dadp.query@relianceada.com](mailto:dadp.query@relianceada.com).