

# Case Study for Aplaya's MimobiTv Project



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## **Abstract**

The client Apalya Technologies has designed a product by itself called MimobiTv to provide Mobile exclusive programming and personalized entertainment into the hands of a Mobile User customized as per the requirements of different carriers. Apalya aggregates premium entertainment content from many different content providers, and then optimizes the content to be suitable for small screen or mobile viewing. Apalyas Unique technology works on delivering the best possible mobile entertainment experience Based on the type of the device and the kind of network being used. Client was looking for a testing team who understands the complete functionality in very short span to accelerate the project. Chakkilam was selected to perform manual testing of MimobiTv in order to improve the quality. With Chakkilam's effort, Product quality was improved.

## **Client Profile**

Apalya Technologies Pvt Ltd. is a company which is the only one of its kind based in Hyderabad, India. The company was formed to take advantage of the growing demand for media and entertainment related services in the mobile space.

## **Business Need:**

Client had made significant investment in developing the industries' mobile media to bring Interactive, Collaborative, On Demand, and Informative Entertainment into the hands of mobile users in an optimized and cost effective way. Client had to ensure that the product acquire the best of the usability to attract optimum number of users. As the product usage was involved with lots of real payment based transaction, it was a prime challenge for client to ensure that at all time all the product users' remains happy and satisfied with the quality of the content delivered to them.

## **Client was looking for an offshore test partner to:**

- Understand the complete product requirements and functionality in very short span to accelerate the project
- Test the product under many scenarios to ensure that the product meets the client requirements as well deliver a quality provide the quality content to ensure that the user has the best experience.
- Compatibility Testing: Test the application in different mobile platforms like Symbian, J2ME, Windows.
- Perform the channels and programs each month as per the requirement of the specific carriers.

## **Test the game for following**

- Functionality
- Usability
- Transactions Involved

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- Different Mobile devices

### Challenges

#### The main challenges Chakkilam faced were:

- Non availability of formal functional documentation resulting in requirement of close collaboration with the client's development team for understanding, verification and execution of testing and bug resolving process.
- Close track of all communication between the development team.
- Verification of application report details against the inputs and values in database and other technology constraints related to application, requirements specifications and logic based professional compatibility.
- Working under firm time lines and the complexity involved in gaining domain expertise in very short span

### Chakkilam's Solution:

Chakkilam was selected as the test team to perform manual testing of the product by client development team. Chakkilam team had to ensure the overall quality of deliverables is achieved within the agreed timeline. A proper communication channel was established between the client and its development team to ensure that no gaps are left during the final testing. Day to day status reports were made to ensure that Chakkilam team is in line with the development team and Client's expectations.

The Verification & Validation was done on basis of client testing instructions and team inline with the knowledge transfer from development team.

#### Chakkilam followed the following approach iteratively.

- Adhoc Testing approaches were used because of the deadlines to make an early presence in the market ensuring the quality. The team spent time understanding basic betting terminology and scenarios. Shared their thoughts with each other and discussed the general approach and the work division.
- The team then spent one day playing with the application before planning the testing strategy and identified some of the risky areas of the application for testing, divided the work and started by testing the application. The team briefed everyday in the morning and debrief in the evening.
- As per the document, 16 modules were identified, and assigned those modules to 2 of the testers. Each of them worked on different areas of those modules and reported bugs on daily basis.

#### Testing Techniques

- Boundary Value Analysis were used to test the maximum and minimum bets.
- Decision Tables were used for different combination of product' package types.
- Testing the product and daily reporting pattern for the bugs and issues found
- Verification and closure of each issue with the priorities defined
- Closure and acceptance

## Benefits

- Increased efficiency of testing by least knowledge transfer time taken from the Client as chakkilam domain expertise helped a lot in testing and improving the quality of the product.
- Close communication with development team from Chakkilam made the dead line achievable.

## Metrics:

- The team spent one day playing with the application before planning the test strategy.
- Total number of posted bugs were 40 in the first phase of the development (in that Critical =6, Significant =19, Annoyance =10, Content =2, Feature request=2 , unassigned =1)
- After testing the application using the best practices used by Chakkilam, the bugs in the application were reduced to 3 and delivered to the client informing them about the bugs as 'known Issues' (These 'Known Issues' were rectified in the later versions).
- The testing team spent time to retest the application and looked for defects, which have not been introduced or uncovered in unchanged areas of the software as a result of the changes made.

## Technology

- Application Developed in SYMBIAN, JAVA programming (J2ME, Servlets, JSP), XML for client server applications , MYSQL.
- Windows, Linux
- Bug Zilla (Bug tracking tool)

## **Chakkilam Test Services**

Chakkilam Infotech is a Software Testing Services provider. Chakkilam Test Labs defines test designs and delivers business enabled Testing solutions that help Global companies win in a flat world. These solutions focus on providing strategic differentiation and operational superiority to clients. Chakkilam creates these solutions for its clients by leveraging its domain and business expertise along with a complete range of testing services. The majority of its services are in Software Testing with Manual and Automation Test Processes and automation Testing. The offshore and on-site quality assurance services model provides time to market edge with cost affective solutions. The highly technical and dedicated testing professionals from Chakkilam provide the innovative solutions to the customers. All these professionals are ISTQB Certified.

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