ZONAL GAMES MANAGEMENT SYSTEM

FOR

ANNA UNIVERSITY SPORTS BOARD

A PROJECT REPORT

Submitted by

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(2019272015)

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DEPARTMENT OF INFORMATION SCIENCE AND TECHNOLOGY COLLEGE OF ENGINEERING, GUINDY

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BONAFIDE CERTIFICATE

Certified that this project report titled "ZONAL GAMES MANAGEMENT SYSTEM FOR ANNA UNIVERSITY SPORTS BOARD" is the bona fide work of KARTHIKEYAN S (2019272015) who carried out project work under my supervision. Certified further that to the best of my knowledge and belief, the work reported herein does not form part of any other thesis or dissertation on the basis of which a degree or an award was conferred on an earlier occasion on this or any other candidate.

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DATE: 01.06.2022 PROJECT GUIDE

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ABSTRACT

Anna University Sports Board conducts zonal games every year, it is hard to maintain the student data and keep track of old event records.it is a necessity to digitalize and store the data on database or cloud for easier accessibility of records and to keep the data safe. Due to the current manual process, it is hard to keep track of old event and player information, it is hard verify the eligibility proforma of players who may involve in impersonation.

This project helps in maintaining the records over the cloud and in verifying the eligibility proforma of players by generating a Quick Response (QR) Code with student information while the player enrols the data and securing the data inside the Quick Response (QR) code with TCPDF 2-D barcode API integration.

It also provides an easier interface with a Quick Response (QR) Code reader inside the project for officials to verify players, it will read the encrypted data and decrypts it and shows the player data to the official for manual verification.

By using this approach, a player cannot manipulate the data inside the Quick Response (QR) Code. It also helps in updating current event information to the colleges in a particular zone for participating in events.

திட்டப்பணிச்சுருக்கம்

அண்ணா பல்கலைக்கழக விளையாட்டு வாரியம் ஒவ்வொரு ஆண்டும் மண்டல விளையாட்டுகளை நடத்துகிறது, மாணவர்களின் தரவை பராமரிப்பது மற்றும் பழைய நிகழ்வுகளின் பதிவுகளை கண்காணிப்பது கடினம். பதிவுகளை எளிதாக அணுகுவதற்கும் தரவை வைத்திருப்பதற்கும் தரவுத்தளத்தில் அல்லது மேகக்கணியில் தரவை டிஜிட்டல் மயமாக்கி சேமிப்பது அவசியம். பாதுகாப்பான. தற்போதைய கையேடு செயல்முறையின் காரணமாக, பழைய நிகழ்வு மற்றும் பிளேயர் தகவலைக் கண்காணிப்பது கடினம், ஆள்மாறாட்டம் செய்வதில் ஈடுபடக்கூடிய வீரர்களின் தகுதித் திட்டத்தைச் சரிபார்ப்பது கடினம்.

இந்தத் திட்டம், மேகக்கணியில் பதிவுகளைப் பராமரிக்கவும், மாணவர்களின் தகவலுடன் கூடிய விரைவுப் பதில் (QR) குறியீட்டை உருவாக்குவதன் மூலம் வீரர்களின் தகுதித் திட்டத்தைச் சரிபார்க்கவும், வீரர் தரவைப் பதிவுசெய்து, TCPDF உடன் விரைவுப் பதில் (QR) குறியீட்டின் உள்ளே தரவைப் பாதுகாக்கவும் உதவுகிறது. 2-டி பார்கோடு API ஒருங்கிணைப்பு. அதிகாரிகள் பிளேயர்களைச் சரிபார்க்க, திட்டத்திற்குள் விரைவான பதில் (QR) குறியீடு ரீடருடன் எளிதான இடைமுகத்தையும் இது வழங்குகிறது, இது மறைகுறியாக்கப்பட்ட தரவைப் படித்து அதை மறைகுறியாக்குகிறது மற்றும் கைமுறை சரிபார்ப்பிற்காக பிளேயர் தரவை அதிகாரிக்குக் காண்பிக்கும். இந்த அணுகுமுறையைப் பயன்படுத்துவதன் மூலம், விரைவு பதில் (QR) குறியீட்டில் உள்ள தரவை ஒரு பிளேயர் கையாள முடியாது. நிகழ்வுகளில் பங்கேற்பதற்காக ஒரு குறிப்பிட்ட மண்டலத்தில் உள்ள கல்லூரிகளுக்கு நடப்பு நிகழ்வுத் தகவலைப் புதுப்பிக்கவும் இது உதவுகிறது.

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LIST OF ABBREVATIONS

PHP Hypertext Pre processor

SMTP Simple Mail Transfer Protocol

API Application Programming Interface

HTML Hypertext Markup Language

CSS Cascading Style Sheets

QR Quick Response Code

JS JavaScript

AJAX Asynchronous JavaScript and XML

SQL Structured Query Language

CHAPTER 1

INTRODUCTION

The various sports game categorized under nineteen -zones one zone basis, depending upon the expected participation and infrastructure requirements. The Zonal tournament are followed by Inter-zonal tournaments and selection train for a few games.

1.1 AUSB ACTIVITIES

Communicates to all Zonal Sports Coordinators to initiate action towards the conduct of Zonal & Interzonal sports activities by convening Zonal Sports committee meeting inviting the Physical Directors of various institutions in their zones.

Receives proposal from zonal Sports Coordinators the schedule of zonal sports events. Proposal for the conduct of inter-zonal tournaments along with existing budget allotment of funds for the conduct of zonal /Inter-zonal tournaments.

1.2 SIGNIFICANCE OF ZONAL TOURNAMENTS

Communicates to all Head of Institutions and Physical Directory to prepare the list containing all the sports events likely to be participated to their institutions at zonal/Inter-zonal level and explore the possibility of hosting zonal/Inter-zonal tournaments, based on the sports schedule provided by AUSB.

Convenes the first zonal sports committee meeting of all physical Director in their zone and members of the zonal sports Council to finalize the dates & venue of zonal tournaments, list of willing institutions (one for each game) to host interzonal tournaments as per the budged allotted for the conduct of zonal tournaments for making available in the Inter-zonal Sports Committee meeting to be convened by the chairman, Anna University Sports Board.

1.3 ROLE OF GAME COORDINATOR

Zonal Coordinator players list names and game of the event send to the Game Coordinator. Game Coordinator verify player Information and Organize the Event. And Particular Player calculated the score published the Score informed to zonal Coordinator and publish.

1.4 OUTCOME OF ZONAL TOURNAMENTS

To organize Zonal and Inter-Zonal tournaments in the recognized games and Sports, towards Selection University Teams. To raise the general standards of Sports and Games towards achievement in Inter-University/National /Inter-National tournaments.

1.5 STACKHOLDERS IN AUSB TOURNAMENTS

Zonal Coordinator, Game Coordinator, Physical Directors all are one of the Stack holders. Circulates the budget provisions sanctioned by AUSB in connection with the conduct of Zonal events. Inform the members of the Zonal-Selection Committee regarding the date venue and event they are entrusted with, their programme and schedule of activities.

CHAPTER 2

LITERATURE SURVEY

2.1 WORKFLOW OF AUSB TOURNAMENTS

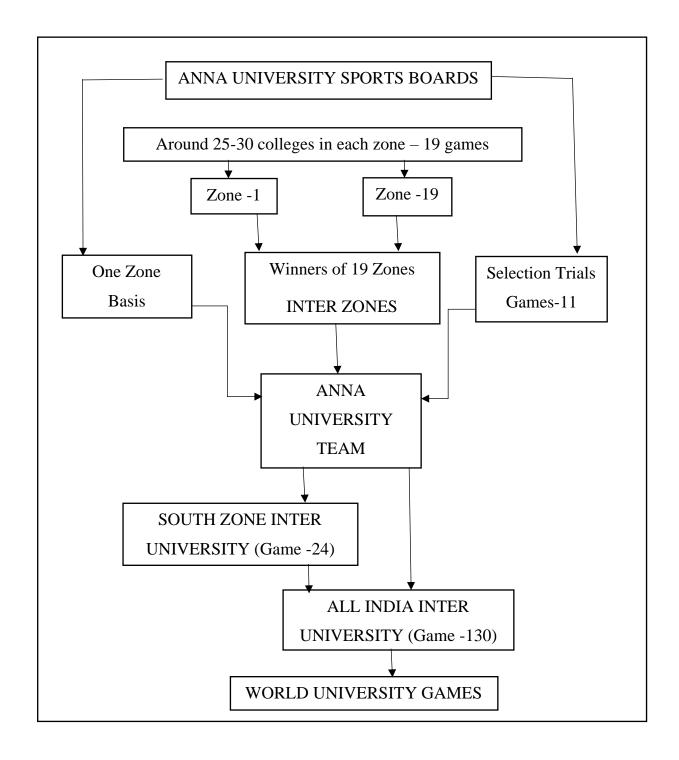


FIGURE 2.1

2.2 EXISTING SYSTEM

Currently, the process of managing the sports board is file based and manual. These obsolete management system slows down functionality of the zonal events. For example, a new user wants to enrolment me in a training batch he/she has to visit the sport board and fill up the registration form. The form then passes through a hierarchy of Zonal Coordinator before approval. It takes time as well as effort form a user's perspective. This is just a single case. Same problem persists in all the major operation of the Sports board.

2.3 NEED FOR AUTOMATION ZONAL TOURNAMENTS

Student Enrolment our application easy to find out student information and verify zonal Coordinator approve and reject to the application. This digitalize method used. All the information saved database any time check useful.

Zonal Tournaments organized various events and games. Easy to find out player Eligibility performance and score marked to database.

2.4 OBJECTIVE OF PROPOSED SYSTEM

The objective is to build a robust application for managing zonal games by using a set of complex strategies to secure player data and verify player to prevent impersonation and to provide a clean user interface for colleges to enrolment players for various events.

CHAPTER -3

SYSTEM DESIGN

3.1 SYSTEM ARCHITECTURE

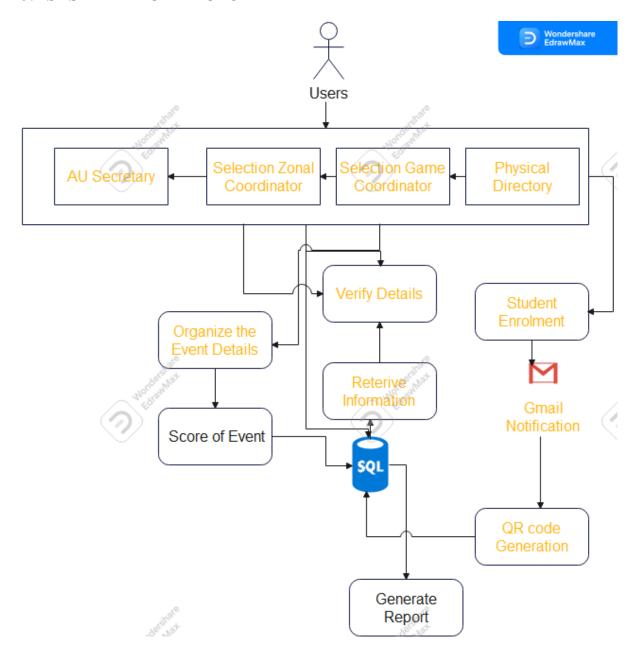


FIGURE 3.1

SYSTEM ARCHITECTUR EXPLANATION

- AU Secretary willingness of Zonal Coordinator.
- Zonal Coordinator Verify the Certificate and Experience to Selected in Game coordinator.
- Zonal Coordinator Student Information and Game of the Event send to the Game Coordinator.
- Game Coordinator Organized the event.
- Game Coordinator Calculate to the Student Run Rate.
- Physical Directory verify student Information.
- Participate student various event winner, runner student the receive Certificate and Medals. (Overall architecture is show in Figure 3.1)

3.2 ZONAL TOURNAMENT MODULE DESCRIPTION

USER

- AU Secretary.
- Zonal Coordinator.
- Game Coordinator.
- Physical Directory of College.

3.2.1 AU SECRETARY

- Get Willingness for Zonal Coordinator apply for the application.
- Selecting of 19 Zonal Coordinator.
- Provide booklet and Finance to zonal coordinator.
- After Completion of Zonal Tournaments Collect Finance Statement, Result Booklet.
- Call for Inter Zonal Activities.

- Selecting Inter Zonal Coordinator for 21 games.
- Booklet and Finance Support.
- Collect Inter Zonal result booklet & Audit Statement.
- Submit to the AU Secretary. (This is flowchart show in Fig 3.2)

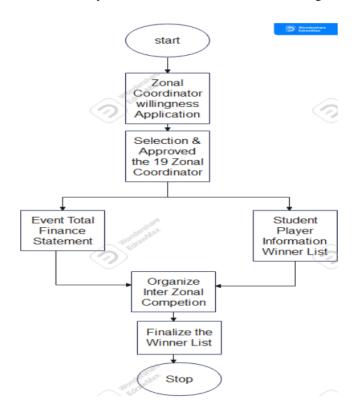


FIGURE 3.2

3.2.2 ZONAL COORDINATOR

- Zonal Coordinator Get Willingness for game Coordinator.
- Selecting 21 game Coordinator.
- Allocating of one Game to One Game Coordinator.
- Allocate Finance For each game.
- Get Result for each game & booklet for game Coordinator.
- Submit Zonal booklet to Secretary.
- Feedback to Game Coordinator to Au Secretary.
- Submit Audit report. (This is flowchart show in Figure 3.3)

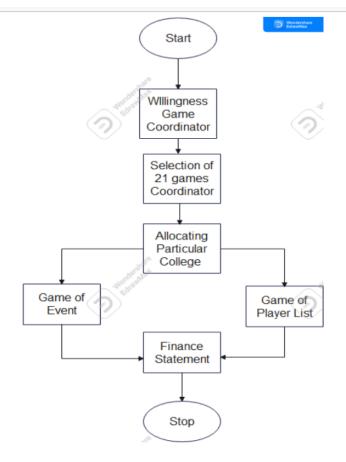


FIGURE 3.3

3.2.3 GAME COORDINATOR

- Game Coordinator Collect each Game, call for Participate List.
- Collect student details Based on Eligibility Proforma application. (profile, Education, Event details and College seal, signature of dean).
- Calculate the player Score.
- Coordinator tournament and declare result.
- Feedback to Game Coordinator to zonal Coordinator.
- Submit to zonal Coordinator & Audit report. (This is flowchart show in Figure 3.4)

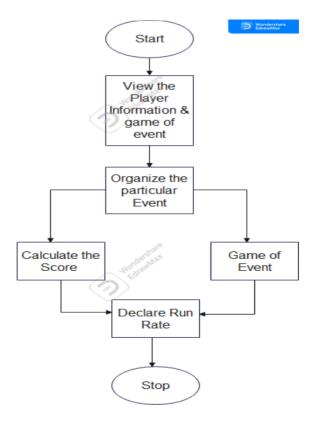


FIGURE 3.4

3.2.4 PHYSICAL DIRECTORY PARTICIPATE COLLEGE

- Upload willingness for games.
- Upload student Enrolment details with authentication.
- Receive medals and certificate (winner, Runner).
- Verify student Details
- Feedback to Game coordinator. (This is flow chart show in Figure 3.5)

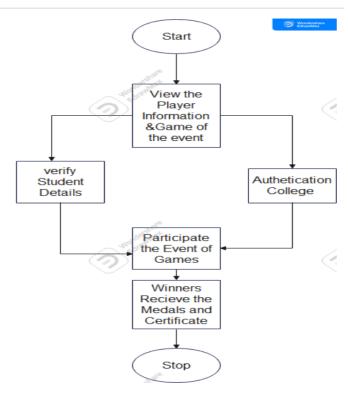


FIGURE 3.5

3.3 TECHNOLOGIES USED

FROND END

3.3.1 BOOSTRAP

Bootstrap is a framework to help you design websites faster and easier. It includes HTML and CSS based design templates for s forms, buttons, tables, navigation, modals, image carousels, etc. It also gives you support for JavaScript plugins.

3.3.2 JAVASCRIPT

Java Script is used by programmers across the world to create dynamic and interactive web content like applications and browsers. JavaScript is so popular that it's the most used programming language in the world, used as a client-side programming language.

BACK END

3.3.3 PHP

PHP (Hypertext Pre-processor) is known as a general-purpose scripting language that can be used to develop dynamic and interactive websites. It was among the first server side languages that could be embedded into HTML, making it easier to add functionality to web pages without needing to call external files for data.

3.3.4 DATABASE

MySQL is an opensource relational database management system. For WordPress sites, that means it helps you store all your blog posts, users, plugin information, etc. It stores that information in separate "tables" and connects it with "keys", which is why it's relational

CHAPTER 4

IMPLEMENTATION

4.1 GMAIL NOTIFICATION

Zonal Coordinator willingness for Register to the application. That application verify Successful send to the Gmail Notification from Users.

Student Enrolment Event willingness for Register to the application. That application verify Successful send to the Gmail Notification .

4.1.1 PHP MAILER

PHP Mailer is a code library and used to send emails safely and easily via PHP code from a web server.

Sending emails directly via PHP code requires a high-level familiarity to SMTP standard protocol and related issues and vulnerabilities about Email injection for spamming. PHP Mailer simplifies the process of sending emails and it is very easy to use.

4.2 QR CODE GENERATION

Students Enrolment our various Event of Games. verify Eligibility Performa and Unique to Generate QR Code our application verified.

4.2.1 QR CODE LIBRARY

- Numeric, Alphanumeric, 8-bit encoding.
- Implemented purely in PHP, no external dependencies except GD2
- Exports to PNG, JPEG images, also exports as bit-table
- TCPDF 2-D barcode API integration
- Easy to configure
- Data cache for calculation speed-up
- Provided merge tool helps deploy library as a one big dependency-less file.
- Debug data dump, error logging, time benchmarking.

4.3 TABLE STRUCTURE

Database Schema for Zonal Games Management

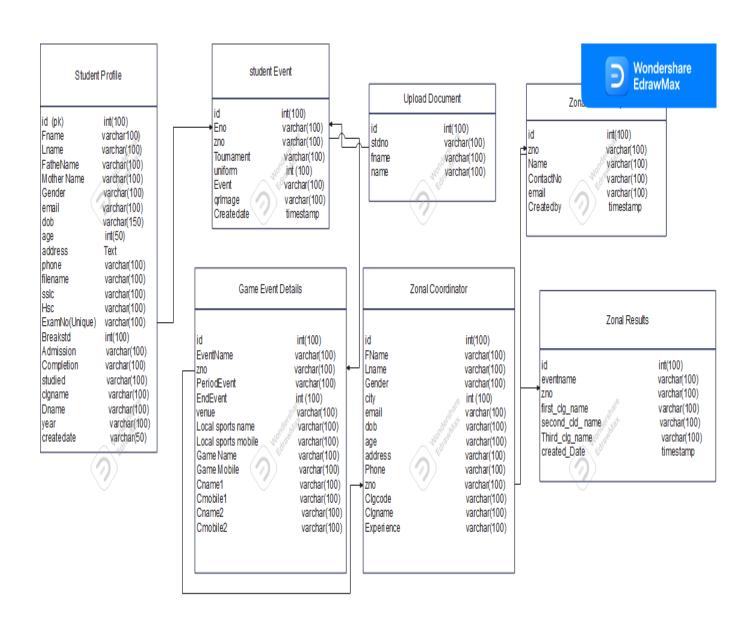


FIGURE 4.1

CHAPTER 5

EXPERIMENTAL RESULTS

5.1 STUDENT ENROLMENT

5.1.1 PHYSICAL DIRECTORY LOGIN



FIGURE 5.1

5.1.2 PHYSICAL DIRECTORY DASHBOARD

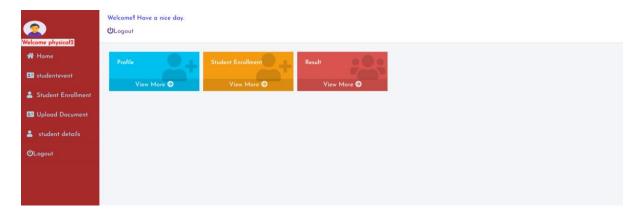
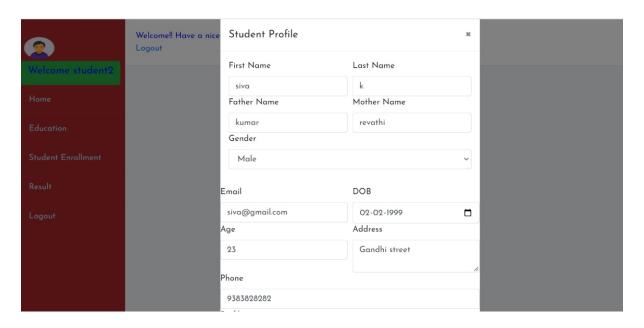
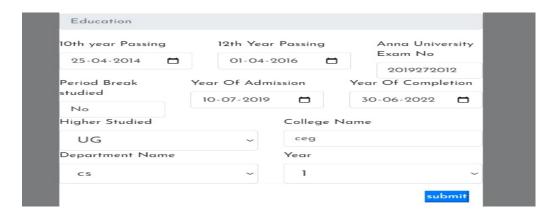


FIGURE 5.2

5.1.2.1 PROFILE





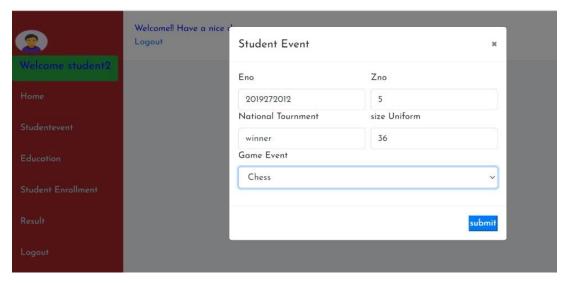


FIGURE 5.3 (Eligibility Proforma)

INSERT

STUDENT PROFILE

id	First Name	Last Name	Father Name	Mother Name	Gender	Email	DOB	Age	address	Phonenumber
59	prakash	kumar	prabhu	revathi	Male	prakash@gmail.com	2022- 04-28	23	street	9821883838
60	prem kumar	s	sathish	premlatha	Male	prem@gmail.com	2003- 02-27	19	Anna street	9383831111
61	siva	k	kumar	revathi	Male	siva@gmail.com	1999- 02-02	23	Gandhi street	9383828282

STUDENT EVENT

Exam NO	First Name	Last Name	email	phone	College Name	Department Name	Zno	Event	status	Created date
201927201	prakash	kumar	prakash@gmail.com	9821883838	ceg	cs	02	Athletics	Rejected	2022-04- 23 11:19:54
20192702	prem kumar	s	prem@gmail.com	9383831111	AC Tech	cs	02	Basket Ball	Rejected	2022-04- 23 11:24:01
2019272012	siva	k	siva@gmail.com	9383828282	ceg	cs	5	Chess		2022-04- 23 17:00:25

UPDATE

id	First Name	Last Name	Father Name	Mother Name	Gender	Email	DOB	Age	address	Phonenumber
59	prakash	kumar	prabhu	revathi	Male	prakash@gmail.com	2022- 04-28	23	street	9821883838
60	prem kumar	s	sathish	premlatha	Male	prem@gmail.com	2003- 02-27	19	Anna street	9383831111
61	siva prakash	k	kumar	revathi	Male	siva@gmail.com	1999- 02-02	23	Gandhi street	9383828282

DELETE

Phonenumber	Profile	sslc	hsc	ExamNo	Breakstudy	Admission	Completion	Studied	ClgName	Dept_Name	Year	Update	Delete
9821883838		2014- 04-05	2016- 04-01	201927201	No	2020-07- 16	2022-06- 06	UG	ceg	cs	1	2	Û
9383831111		2015- 04-03	2017- 04-01	20192702	1	2018-04- 13	2022-06- 06	UG	AC Tech	cs	1	8	ū
9383828282		2014- 04-25	2016- 04-01	2019272012	No	2019-07- 10	2022-06- 30	UG	ceg	cs	1	3	ı

	2022- 05-26	23	street	9882282882	2022- 05-28	2022- 05-23	201919	1	2022-05- 24	2022-05- 27	UG	ceg	cs	1	8	ê	•
m	2022- 05-26	23	street	9838383838	2022- 05-17	2022- 05-10	201928001	1	2022-05- 30	2022-05- 29	UG	ceg	cs	1	8	ê	•
	2022- 05-19	21	street	9833838383	2022- 05-05	2022- 05-04	2019272014	1	2022-05- 20	2022-05- 27	UG	ceg	cs	1	8	ê	•
	2022- 05-06	34	street	919833838383	2022- 06-02	2022- 05-26	20192712	1	2022-05- 31	2022-05- 29	UG	ceg	cs	1	8	ê	•

5.1.2.4 DOWNLOAD STUDENT ENROLMENT QR CODE GENERATION

5/25/22, 9:31 PM Sports Form



Anna University Sports Board

ANNA UNIVERSITY, CHENNAI - 25. ELIGIBILITY PROFORMA OF PLAYERS



Zone No.:03

1.	Name of the Student	prabhu
2.	Game	Volleyball
3.	Father's Name	deva
4.	Mother's Name	sri
5.	Name of the College	ceg
6.	Date Of Birth & Age	2022-05-19 & 21
	Address for communication	
7.	Mobile No.:	9833838383

, 9:	31 PM	Sports Form	
		(for PG students)	College of Study : ceg
			Year Of Admission :
			Year of Completion:
	14.	Period of break of study (if any)	1
	15.	Details of earlier representation on University team *	
	16.	Details of participation in National / International Tournaments *	
	17.	Size of Uniform (the right size)	32



Enclosure:

5/25/22,

- Attested copy of the +2 mark sheet / Diploma Certificate
- Attested copy of the AU examination recent Hall Ticket/ fee receipt for I Year/ recently received Semester Mark Sheet
- Attested copy of the degree certificate in case of PG students

FIGURE 5.4 QR Code Generation

5.1.2.5 PHYSICAL DIRECTORY UPLOAD DOCUMENT SEND TO ZONAL COORDINATOR

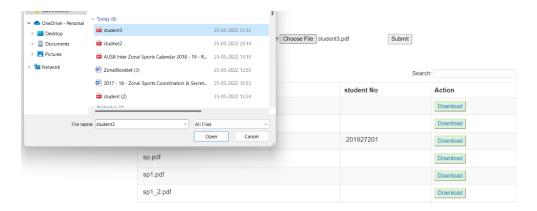


FIGURE 5.5 Upload Document

5.2 ZONAL COORDINATOR

5.2.1 ZONAL DASHBOARD

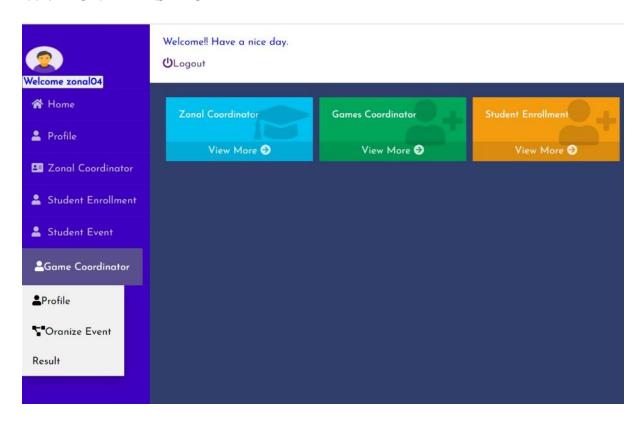


Figure 5.6 Zonal Coordinator Dashboard

5.2.2 SEARCH DETAILS

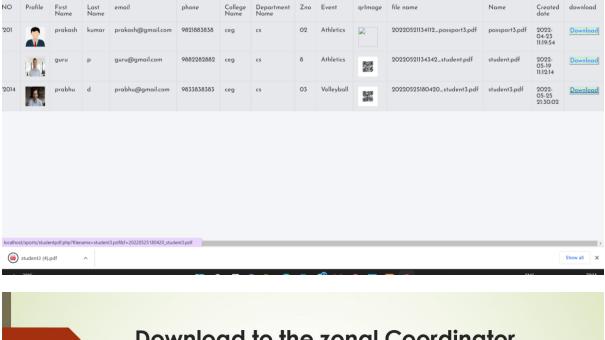


5.2.3 STUDENT EXPORT

id	First Name	Last Name	Father Name	Mother Name	Gender	Email	DOB	Age	address	Phonenumber
59	prakash	kumar	prabhu	revathi	Male	prakash@gmail.com	2022- 04-28	23	street	9821883838
60	prem kumar	S	sathish	premlatha	Male	prem@gmail.com	2003- 02-27	19	Anna street	9383831111
61	siva	k	kumar	revathi	Male	siva@gmail.com	1999- 02-02	23	Gandhi street	9383828282



5.2.4 STUDENT ENROLMENT DOWNLOAD INFORMATION VERIFY



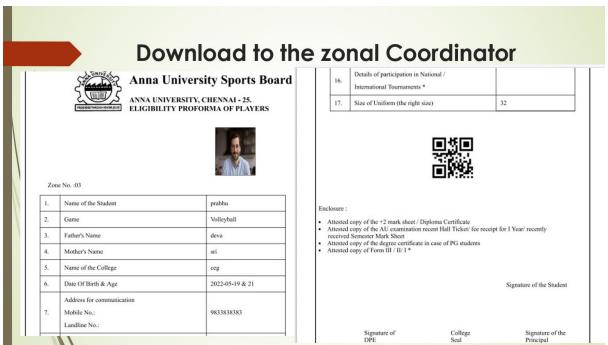
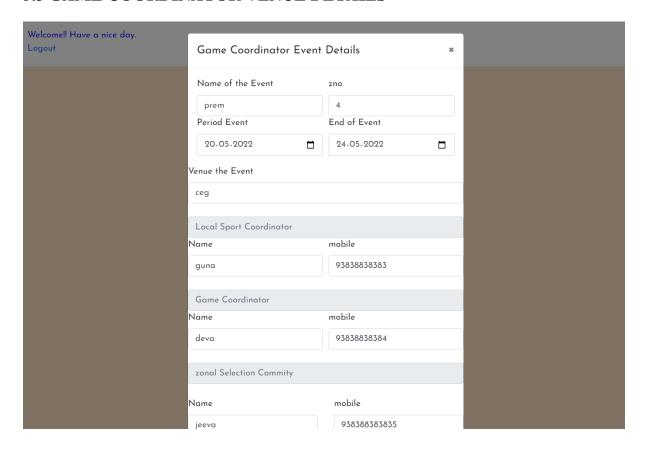


FIGURE 5.7 Download Student Enrolment Details

5.3 GAME COORDINATOR VENUE DETAILS



VIEW INFORMATION

id	EventName	zno	PeroidEvent	EndEvent	Venue	Local coordinator Name	Local coordinator mobile	Game coordinator Name	Game coordinator mobile	Committy Name1	Commity mobile1	Committy Name2	Commity mobile2
7	football	2	2022-05-12	2022-05- 05	anan	sld	9399999929	ods	9399999929	dk	939999929	dd	9399999929
8	prem	4	2022-05-20	2022-05- 24	ceg	guna	9383883838	deva	9383883838	jeeva	9383883838	dinesh	9383883838

FIGURE 5.8 Event Details

REFERENCES

AUSB. "Anna University Sports Board Guidelines".

https://www.w3schools.com/php/

 $https://www.w3schools.com/php/php_mysql_select.asp$

https://netcorecloud.com/tutorials/send-an-email-via-gmail-smtp-server-using-php/

http://phpqrcode.sourceforge.net/