



Pay Aulis

DAVE - ENO BGEROOS ?

JILALAN

MONTHLY CIRCULAR OF THE BRISBANE

CATHOLIC BUSHWALKING CLUB

UNDER THE GUIDANCE OF OUR LADY OF THE WAY

FEB 1985



JILALAN

The Club's address is PO Box 151, North Quay, Brisbane 4000 and the telephone contact number is listed in the white pages Telephone Directory under 'B'.

Monthly meetings are held on the third Monday of the month at the Catholic Centre, Edward Street, City, Beginning at 7.30pm. To enter the Catholic Centre use the rear entrance. This is reached by entering the grounds of St Stephen's Cathedral via Charlotte Street (entrance nearest Edward St). From Charlotte Street the door is near a white statue. If the door is locked, please ring the bell. Visitors are always welcome.

Members of the Committee are:-

CHAPLAIN

PRESIDENT	Russ Nelson	(H) 378 5200	(W) 224 6413
VICE PRESIDENT	Geoff Egert	48 4918	
OUTINGS SECRETARY	Justin Tobin	260 5065	260 5065
GENERAL SECRETARY	Margaret Anderson	398 2187	226 3394
TREASURER	Peter Dore	892 1983	
SOCIAL SECRETARY	Steve Arthur	359 7562	260 1591 ext 326
EDITOR	Barney Tobin	260 5065	;
SAFETY & TRAINING OFFICER	Greg Endicott	351 4092	33 9357
GENERAL COMMITTEE	Geoff Dower	371 2382	229 5011
	Ken McCarron	349 6046	33 9382
	Peggy Rutter	359 7517	
EQUIPMENT HIRE	Geoff Dower	371 2382	229 5011

EMERGENCY OFFICER: Where a trip is overdue, parents may telephone the Emergency Officer (as specified for each trip). Please do not ring before 9.00pm at the earliest.

EQUIPMENT OF EVERY TRIP: On every trip run by the Club all walkers, both members and visitors, are expected to take the following minimum equipment:-

torch; first aid kit; parka or raincoat;
and at least $\frac{1}{2}$ litre of water.

ATTENTION!

ALL persons, adult or child, member or visitor, undertake all activities of the Club at their own risk. The Club is not in a position to even state that all care will be taken. It is repeated that all persons undertake all activities entirely at their own risk.

February:

17 Choo Choo Trip - Leader: Geoff Egert DW
 18 Monthly Meeting
 22 Ten Pin Bowling
 23/24 Booloumba Gorge - Leader: Greg Endicott ON

March:

3 Lower Portals DW
 10 Safety & Training - Compass Work
 16/17 Lightning Falls - Black Canyon - Leader: Tony Wood TW
 O'Reilly's - Leader: Russ Nelson BC
 18 Monthly Meeting
 23 Bush Dance
 24 Tibrogargan - FMR - Simulated Rock Rescue
 29 Slide Night - 10 Tamarix St Chapel Hill
 31 Knapps Creek - Leader: Tony Young DW

April:

5/8 Easter - Private Trip
 13/14 Long Creek - Leader: Geoff Dower ON
 20 Annual Mass & Dinner
 21 Safety & Training - Search Technique
 15 Monthly Meeting
 22 New People's Night
 23 FMR - Maintenance of Rescue Equipment
 25 Anzac Day - Taylor Range - Leader: David Nelson DW
 26/28 Mt Barney - DAVE MORT. TW/BC

May:

4/6 Labour Day Weekend - Warrumbungles - Leader: J. Tobin BC
 11/12 FMR Training - Springbrook - Evening Training: BBW
 19 ~~Mt May~~ - Leader: Pat Lawton BEAU BRUMMEL DW
 20 Monthly Meeting
 26 Safety & Training - Radio Training

June:

1/2 Mt Huntley ON
 8/10 Queen's Birthday W/E - Richmond Gap to Numinbah TW
 16 Safety & Training - Map Reading
 17 Monthly Meeting
 25 FMR - SES Regional and Search Organisation
 29/30 Mt Michael TW

July:

6/7 FMR Weekend Training
 13 Safety & Training - Bush First Aid
 14 Beau Brummel ~~Mt May~~ DW
 17 Monthly Meeting
 20/21 Federation Clean-up
 26/28 Ramparts TW

August:

4 Flinder's Peak DW
 11 Safety & Training - Basic Rope & Cliff Skills
 14 Barney Mass - 25th Anniversary
 19 Monthly Meeting
 24/25 Clunie to Lindsay ON
 27 FMR - Police Communications

Legend:

TW Throughwalk BC Basecamp
 ON Overnighter DW Daywalk

JILALANCOMING OUTINGS

BOLOUMBA GORGE (or the Justin Memorial Outing)
 Date : 23/24 February
 Leader : Greg Endicott 339357(w) 3514092(h)
 Cost : \$10.00
 Emergency Officer: Russ Melson Ph 378 5200
 Meeting Time : 6.30pm at the Cathedral for Mass;
 7.30pm departure
 Location : Up the North Coast Highway, turn right
 up to Maleny and beyond in the Conondale
 Ranges - Christmas Party territory.

This is a must for anyone with any sort of interest in the Club. It commemorates a very important day in the history of the Club.

You will find yourself camping up the top of the area, in a flat spot with plenty of wood. The walk itself is down the road for a short way, then down the creek for an hour. This is another picturesque waterway, lovely ponds, bush right down to the waters edge, and a spectacular junction at its end. You will be impressed. Then for a contour along the side above the gorge and a quick drop down into it for Boloumba Falls. Now is the tricky part - crossing the falls. After this, my party will again do a short contour and drop back into the creek.

Come and see the height of the gully;
 Come and lie on the same rock;
 Come and use your imagination for the trip out;
 Come, it is an outing suitable for most.

Anybody who did the Boonoo Boonoo throughwalk will find it easy.

Nominate now _ _ _ _ _

LOWER PORTALS - Daywalk
 Date : 3 March 1985
 Leader : Barney Tobin - (H)2605065 ()
 Cost : \$10.00
 Location : Beaudesert, Rathdowney
 Meeting Time : 7.30am outside Cathedral grounds,
 Charlotte Street
 Emergency Officer: Justin Tobin - ph 260 5065

This is your chance to join me on the Club's inaugural walk to the Lower Portals by the new National Park track. We will be walking along a graded track to the Lower Portals (flat and very easy), having morning tea, and then heading up to the Barney Falls for a look - very scenic walking along the Barney Creek.

We will then head back down to the Lower Portals for lunch and a swim. As the Club doesn't get in to the Lower Portals very often, here is your chance to get there. The walk is easy to very easy, so nominate to me at the next meeting.

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LIGHTNING FALLS - BLACK CANYON - Throughwalk
 Leader : Tony Wood - (H)3983018 (W)8310128
 Date : 16/17 March
 Cost : \$12.00
 Emergency Officer : Justin Tobin - ph 260 5065
 Location : South of Beaudesert, Lamington NP
 Meeting Time : 7.15pm Friday 15th at the Cathedral

Lightning and Thunder Falls are nestled in the dark recesses of Black Canyon, in the headwaters of the Albert River. These twin falls are located in a rainforest valley of Lamington NP. The aim of this walk is to rock hop up the north branch of Albert River from open grazing country. On the way a compulsory swim is enjoyed at Red Rock Gorge (an air mattress will be supplied - of course, a portage fee will be charged).

Depending on the progress of the party, camp that day will be in the river (rather rocky!) or on the ridge above the falls. The climb out of the gorge is, to say the least, steep. The walk on Sunday involves following the track to O'Reilly's via Echo Point. We continue on past Pat and Luke's Bluffs and descend into the valley via the Commando Track.

This is a medium to hard throughwalk with plenty of rock hopping on the Saturday plus a steep climb. Maximum number is 10 (campsite may be limited). The usual gear is required. Make sure your sleeping bag is made waterproof. If there is wet weather on the weekend, the creek walk may be altered to a ridge walk in the locality (eg Lost World, Mt Widgee).

O'REILLY'S - Basecamp
 Date : 15/17 March
 Leader : Russ Nelson - 378 5200(H) 224 6413 (W)
 Cost : \$12.00
 Emergency Officer : Justin Tobin - ph 260 5065
 Location : West of Gold Coast
 Meeting Time : 7.15pm Friday 15th at carpark in St Stephen's Cathedral

On Saturday it is planned to follow the graded track system out to the New South Wales border and visit Mts Bethongabel and Tooloona. Then we will turn north-west and follow Tooloona Creek till it joins West Canungra Creek at West Canungra Falls. We continue downstream, passing many waterfalls and a swimming hole called Blue Pool. There we will swim and enjoy a billy of tea. For a post lunch stroll, we will visit Stairway Falls. Our return to O'Reilly's will be by an express route. By following this route a full day's walking with some great views of northern NSW and some of the best rainforest in eastern Australia will be provided.

An early rise will be a feature of Sunday. We are doing this so that we can enjoy breakfast at Luke's Bluff. From there we follow the Kerry Track, Commando Track and Moran's Creek to Moran's Falls. A feature of this is two caves and a water race. On reaching Moran's Falls we take an express route back to O'Reilly's. Overall, the weekend will be full of highly rewarding walking featuring great views, rainforest, creeks, waterfalls, breakfast at sunrise, and your company.

February 1985JILALANPAST OUTINGS

BUNNA BOO NOO (Boonoo Boonoo) - Throughwalk - 4/6 January
 Leader: Greg Endicott

Starting out at 7am Saturday; this party immediately found the typical Bookookoorara Creek, with its large rocks, rainforest down to water's edge, steep sides and ample flowing water. There are three major obstacles, being one set of falls and two large pools. A truly pretty creek, this one, well worth doing just for the scene. After an hour and a bit we got into pool country, and a further hour after came across "the falls". Negotiating these to the right took lots of difficulty, a slide, and some scratches. So morning tea below an hour later.

The two pools were crossed by lilo and at 7.00pm camp was made in the rainforest with the Eucalypts towering above on the steep slopes. Moonrise was fast, it being a full moon, with its light racing down the ridge towards us, then lighting the tops of the trees directly above and making its way to us below. A picturesque moon stuck its head over the ridge opposite.

Yet again a medium start, and the junction after an hour. Both days were extremely hot, with no need for swims to get thoroughly wet. Saturday was humid in the valley, with no breeze, and no time for swimming. Boonoo Boonoo itself is a river completely different to Bookookoorara, as it is made up of a wide valley through which flows a creek along rock slabs, occasional boulders and some gravel. Eucalypt comes down to the creek's edge and has wide tree covered bends. Thus the heat beat down from above and was reflected back up from the heat absorbing rock. Not a comfortable day, but shorter in walking time, allowing some swims. We passed the tourists at the road crossing and found the foot of the falls at 3pm upon re-entering the rainforest. These falls are spectacular for their size and appearance. The troops turned their backs on them and climbed the ridge opposite, not caring about fate or fame. A dry two hours later the top was achieved, and a quick hour later the head of the valley was negotiated and the car park conquered.

Thanks to the other four for their accomplishment of the last three hours - the leader said more than enough for the lot.

REYNOLDS GORGE - Daywalk - 20 January
 Leader : Justin Tobin

Well, there were eleven happy, smiling daywalkers heading for Reynolds Gorge and a relaxing day's walking. A short stop at Aratula before reaching the camping ground and the start of the walk. Following the road from here to Reynolds Creek and the creek crossing. Most of the troops decided to swim across while the rest required portage with the packs on the Tobin li-lo. With the creek safely crossed, we headed for Moogerah Dam, following the creek between Little Mt Edwards and Mt Edwards. The rock slabs gave some problems, but we were soon at Moogerah for smoko. Across the dam wall and then on to the top of Mt Edwards for beautiful views across to Castle
 (con't)

JILALAN

REYNOLDS GORGE (Con't)

and Flinders Peak. Down for lunch, before li-loing back down the creek to complete a very enjoyable walk.

Thanks to those who came.

SUNDOWN NATIONAL PARK - Throughwalk - 26/28 January
Leader: John Carter

Somebody's stolen the Severn River I thought as we crossed the 30 metre dry river bed. I was told the river was low, but this was ridiculous! We had just left the camping ground at the southern end of the Park for a leisurely throughwalk upstream. Fortunately, lifesaving waterholes dotted the course of the river.

The strategy of the trip was straightforward. Day One was to walk casually up the Severn River to a decent waterhole/campsite, exploring tributaries on the way. Stroll up to Rat's Castle on Day Two, checking out notable features. Day Three return to our vehicles. While it was certainly warm, we were fortunate not to experience the blistering heat (40°C) the area had recently recorded.

Our camp was near Wallaby Rocks waterhole. On the way to this point, we made two side trips, Mt Donaldson and Stony Creeks. Firstly let me say that this Park is dominated by flora adapted to harsh, dry, unfriendly conditions. Dominant tree species are cypress pine and ironbark on the rugged mountain slopes, and she oaks, river red gums, wattles and rougharked apple trees beside the watercourses.

So it was with interest and delight to discover rainforest tree species (called Dry Vine Scrub) living in the sheltered side creeks. Vines, creepers, fig trees and giant stinging trees (an old friend) grew here. A sizeable community provided ample shade in Mt Donaldson Creek. Stony Creek had an interesting narrow gorge, about an hour's walk from the Severn.

On Sunday the troops following the river up to Rat's Castle, a rocky pinnacle. Quite a good view was obtained from here. This was one of the few climbs of the trip. Dropping into Sundown Creek we discovered the largest leeches I've ever seen (about 6cm). Rejoining the river we walked as far north as Burrow's waterhole. On our return journey to camp we investigated Blue Gorge, which contains an impressive series of cascades, pools and waterfalls. It would be beautiful after rain.

Blessed by fine weather, we enjoyed lovely evenings around the campfire. The night sky was speckled with the glow of thousands of stars, which was a memorable part of the trip for me.

We returned to the camping ground, after leaving at 6.00am. Across the valley from here is McAllaster Creek where we did a three hour return trip to two impressive waterfalls.

(Con't)

JILALAN

SUNDOWN (Con't)

Thus ended an enjoyable (casual) throughwalk. A more challenging trip could be tackled in Autumn or Winter. Thanks to Pat, Peggy, Justin, Ken and Eugene for your participation. Also to Chris Dower and 10 other members of Ipswich Catholic, who were able to be with us for the first two days. It was pleasing to see a good crowd on a throughwalk. Sundown National Park has a ruggedness and uniqueness, that sets it apart from our usual haunts in South-East Queensland.

Geology Backgrounder

This area consists of traprock, which is a mixture of dense metamorphic and igneous rocks. Intense folding, faulting and weathering has resulted in the layered sediments being turned to sharp angles, forming a series of knife-edged ridges running away from the river with deep gullies between them. Two intrusions of granite occur, one having undergone extreme erosion forming Red Rock Gorge. Several porphyritic dykes occur, one giving rise to Rat's Castle.

The dykes and intrusions are frequently mineralized and remains of early mining activity can be seen, driving to Burrow's Waterhole. The main minerals mined were tin, copper, arsenic and molybdenum. The ores were complex and low grade, and water in the shafts and low prices forced the mines to close.

(QNPWS Notes)

OUTING RAMBLINGS

When you're out there walking, experiencing that total peace that only the bush can provide, seeing for the first time that some beautiful waterfall, slogging up that hot open ridge to be rewarded with a view unsurpassed, you discover that the others have enjoyed it as much as you and that lifetime bond is formed. The love of the bush.

Carrying a pack for two days, wandering the wilderness - sitting around the campfire on a Saturday night, spinning a yarn here, telling a tale there, or pouring rain under your tent, and the usual "Rain, you haven't seen rain". Through all this a common bond is formed and it is easy to see our second motto "Fellowship through Bushwalking".

Clubs are formed for reasons of identity; take that reason for existence away and the club will soon collapse. Ours is to provide a place for Bushwalking Catholics. We have Catholic social clubs etc and their function is socials. For 27 years our club has existed because people wanted to and loved bushwalking; we will continue to exist as long as people want to walk.

Join me in 1985 and beyond and put the Bushwalking in BCBC.

Justin Tobin

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PAST SOCIALS

January saw fourteen people meeting at Amazon's for a day of wet fun with many different rides and slides to try their bodies on. It was the first time the Club has had a waterslide day, and even though numbers were down slightly, everybody enjoyed themselves. Thanks to all who came.

Steve Arthur

COMING SOCIALS

February is upon us, so too is the Federation Bush Dance. The venue for this year is the Rosewood Hall at Rosewood. The cost is a modest \$6.00. This covers the dance, door prizes and a light supper. This definitely is one of the better socials of the year. Good stomping fun. If you can't bush dance, it doesn't matter - you can learn on the night. Transport is up to the individual, even though we will be meeting at the Cathedral at 5.30pm to enable us to attend 6.30pm Mass at Eastern Heights before heading off to Rosewood. Tickets are limited, so see David Mort at the meeting for tickets and please bring your money to the meeting. The date of the bush dance is Saturday 23 March 1985.

Steve Arthur

EDITOR'S SCRIBBLES

With the twelfth and last edition of the Jilalan now printed, and my year as editor now completed, I enjoyed the experience very much of being caretaker of your magazine, putting your articles into print, so the rest of the Club could be kept informed and sometimes entertained. Although, to some it would not appear to be so. With my usual "Give us a report; Where's your article; Deadline tomorrow".

Well, we did manage to make the deadline, and to those who made it so, thank you very much.

- Which Outings Secretary went on a daywalk without torch, water bottle and first aid kit?
- What does the term "Drop into the creek" mean?
- You could not say that anybody in BCBC is up a tree.
- Ken is tiring of bushwalking - ask him.

TEN PIN BOWLING

TEN PIN BOWLING

TEN PIN BOWLING

EXHIBITION BOWL - 22 FEBRUARY 1985 - 7.15PM SHARP

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PAST F.M.R. DAY

The prussiking day was a success. At least forty people turned up, seven from BCBC. Beginners were told how to put on the sit harness and how to taylor make a chest harness, and shown the lifting devices. Then all had a go at a rope suspended from a tree - in fact two ropes. While this was going on, others had several goes at arranging the stretcher, with a willing victim being strapped in. Another team set up the winch and anchored it to nearby trees. Once both jobs were successfully completed, teams swapped. Our troops had several goes, and with a few refreshers, should be OK at this.

YHA Club found a suitable cliff upon which to try some real prussiking. Two ropes were going simultaneously, but only for the game and the experienced. Some of our party saw the good safe way to set up ropes for climbing.

It was pleasing to see the numbers from this Club turn up. Thank you.

Greg Endicott

SAFETY AND TRAINING

PAST:

QUESTIONNAIRE

- Q1. Looking at a topographic map, how is it possible to tell its accuracy? A
- Q2. When reading the grid references, for example 948621, which axis of the map do you read -
 - First : A.....
 - Second: A.....
 - Third : A.....
- Q3. What is the bearing of the reservoir from Mt Coot-tha? A.....
- Q4. What is at true north of the Enoggera 1:25000 map? A.....
- Q5. What differences are there when comparing the Samford 1:50000 and the Enoggera 1:25000? A.....
.....
.....
.....
- Q6. For our observation point on Mt Coot-tha, what is the magnetic variation? A.....
- Q7. Why can't you see the quarry at 951668? A.....
- Q8. How would you do a compass march from 948621 to the Channel 9 tower? A.....
- Q9. From your observation point you can see the reservoir, the quarry and golf course. How would you locate your observation point on the map? A.....
- Q10. What can you tell me about Obum Obum Hill? A.....

IF YOU CAN'T ANSWER THESE QUESTIONS, YOU FAILED TO ATTEND OUR NAVIGATION TRAINING MORNING AT MT COOTHA * AND WHY WAS THAT?

COMING:

Are you

- (a) Sick and tired of just walking YES/NO
- (b) Bored with outings YES/NO
- (c) Bored with trips YES/NO
- (d) Lost that initial drive to go on our bush events YES/NO
- (e) Just a follower YES/NO
- (f) Not appreciating what you are going through YES/NO
- (g) Completely bewildered as to where you are headed YES/NO
- (h) If something nasty should happen, completely at a loss as to how to get out YES/NO

If you answer "YES" to any two or more of these questions, you need a dose of a navigation morning.

This medicine is best taken at 10am on a Sunday morning with a glass full of fresh air just after a meal of bush. Only one course may be necessary.

- : Sunday 10th March
- : 10am
- : Meet - in the park opposite Channel 7
- : Mt Coot-tha - at the top
- : Bring yourself, a friend, water
- : The session will take 3 hours
- : Why not stay afterwards for lunch
- : Compass - If you have one, bring it
 If you can borrow one, do it
 If you can steal one, do so
- : Nominate to Graham Walters at the February meeting
 Ph 396 3131
- : Come for the first time
- : Come for a refresher
- : Come to help the teacher
- : DO IT

* * * * *

THINGS TO NOTE:

Cathy McHugh's address is now 111 Whitehill Rd Eastern Heights, phone 283128

Tony Young's address is now 71 Adelaide St Clayfield

Ann-Marie Schmitt's work phone number is no longer current, so please do not ring her at work.

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THE LONGING

By Jim Teys

Deep in my heart the Mountains are calling,
Calling me home to the land that I love
Singing their song like the haunting of sirens,
Echoing through the mist high above.

Along hidden paths where few men have ventured,
My soul is alive with the memories there.
And cliff tops so high the eye cannot catch them
Gracing the sky with their igneous hair.

Eagles so proud, with their wings full extended,
Scouting the countryside far down below,
Searching for prey to feed the young fledglings,
Gliding to where the warm currents flow

O sing to me valleys and rivers so mighty,
Croon to my ear your sirenous song
Long has my heart been full for your yearning
Wait for a while and I'll be along.

Quotes:

- Our greatest glory is, not in never failing, but in rising everytime we fall. (Confucius 500 BC)
- Leeches are creatures - with no pleasant features.
- Don't carve your name upon that tree,
Keep the bush graffiti free.

The following nominations have been received for committee positions for 1985. Elections will be held at the Annual General Meeting on 18 February.

<u>Position</u>	<u>Nominee</u>	<u>Nominated By</u>	<u>Seconded By</u>
President	Mike Wood	S McGrath	M Daly
	Cathy McHugh	M Anderson	J Nelson
Vice-President	Mike Wood	C McHugh	M Anderson
	Geoff Egert	R Nelson	G Endicott
General Secretary	Margaret Anderson	J Lucas	J Nelson
Treasurer	Geoff Dower	C McHugh	G Endicott
Outings Secretary	Mike Wood ✓	S McGrath	C McHugh
	Cathy McHugh	G Dower	M Anderson
Social Secretary	Graham Walters	B Tobin	K Doneley
	Barney Tobin	J Tobin	B Tobin
	Ken McCarron	G Dower	M Anderson
Editor	Justin Tobin	B Tobin	C Daly
	Barney Tobin	M Anderson	P Rutter
General Committee	Greg Endicott ✓	C McHugh	M Anderson
	Justin Tobin	B Tobin	C Daly
	Anne-Marie Schmitt ✓	B Tobin	C Daly
	Barney Tobin	J Tobin	C Daly
	Steve Arthur	C McHugh	P Dore
	Steven McGrath	C Daly	C McHugh
	Peggy Rutter ✓	M Anderson	A Besgrove
Safety & Training Officer	Ken McCarron	G Egert	R Nelson
	Graham Walters	C McHugh	G Dower

SLIDE COMPETITION

The following are the results of the Slide Competition judged on 11 January 1985:

Section 1 Beautiful Australia	1st	G Logan	H.C.	J Carter
	2nd	G Logan	H.C.	B Sperka
	3rd	J Carter	H.C.	G Logan
Section 2 Personalities	1st	B Sperka	H.C.	K McCarron
	2nd	P Rutter	Com.	J Daly
	3rd	J Daly	Com.	J Daly
	H.C.	P Rutter	Com.	J Daly
Section 3 Flora-Fauna	1st	B Sperka	H.C.	J Carter
	2nd	B Sperka	H.C.	J Carter
	3rd	B Sperka		
Section 4 Far Away Places	1st	J Carter	H.C.	M Wood
	2nd	M Wood	H.C.	P Rutter
	3rd	P Rutter	H.C.	J Lucas
			H.C.	M Wood

Congratulations to these people on the high quality of their photography.

1. The first part of the document discusses the general principles of the system and the objectives of the study.

2. The second part of the document describes the methodology used in the study, including the data collection and analysis techniques.

3. The third part of the document presents the results of the study, showing the performance of the system under various conditions.

4. The fourth part of the document discusses the conclusions drawn from the study and the implications for future research.

5. The fifth part of the document provides a detailed description of the system architecture and the components involved.

6. The sixth part of the document describes the implementation of the system and the challenges encountered during the process.

7. The seventh part of the document discusses the evaluation of the system and the comparison with other existing systems.

8. The eighth part of the document provides a summary of the key findings and the overall performance of the system.

9. The ninth part of the document discusses the limitations of the study and the areas for further investigation.

10. The tenth part of the document provides a final conclusion and the overall assessment of the system's performance.

11. The eleventh part of the document discusses the future work and the potential applications of the system.

12. The twelfth part of the document provides a detailed description of the system's performance under different scenarios.

13. The thirteenth part of the document discusses the overall impact of the study and the contributions to the field.

14. The fourteenth part of the document provides a final summary and the overall conclusions of the study.